00653T-00_COVER.qxd 12/23/04 5:34 PM Page 1

SAMSUNG

LN32A32B

TFT-LCD TELEVISION

SAMSUNG ELECTRONICS

Owner's Instructions

This device is a Class B digital apparatus.

BN68-00653T-00

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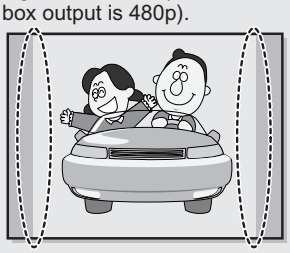
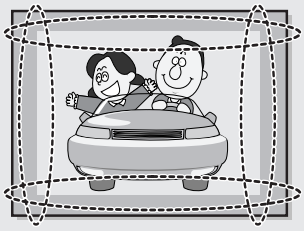
Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the set-top box output is 480p).



- Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the set-top box output is 1080i).

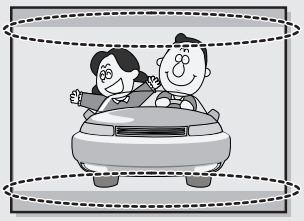


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Digital Ready TV: When the TV receives HD-grade signals (and the set-top box output is 1080i).

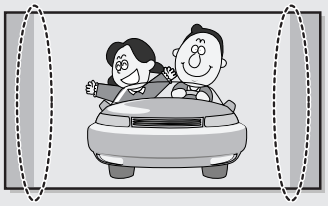


When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

Note : If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).
- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a set-top box).
- When you watch an analog (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).

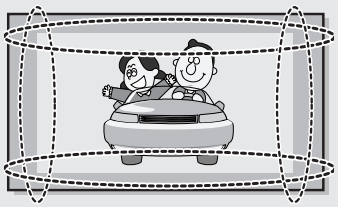


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- When you watch a DVD, CD or a video in wide screen (21:9) format on a wide-screen (16:9) TV.
- When you connect a computer or a game console to the TV and select the 4:3 screen mode.



If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

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Chapter One

YOUR NEW TV

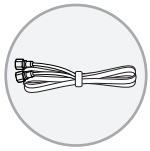
List of Features

- My Color Control:
  Colors can be set to your preference by adjusting pink, blue and green.
- Dynamic Contrast:
  Automatically detects the input visual signal and adjusts to create optimum contrast.
- Brightness Sensor:
  Adjusts the screen brightness automatically depending on the brightness of the surrounding environment.
- Color Weakness:
  This feature enables those with a color weakness to view images as those with normal vision do.
- JBL high performance built-in speakers:
  Enables reproduction of broadband frequency sound.

List of Parts

Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.

Remote Control(BN59-00435A)
& Batteries (AAA x 2)



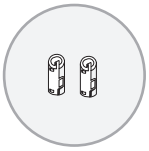
RF Cable
(AA39-00039A)

Power Cord
(3903-000195)

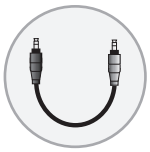
Owner's
Instructions

Stand
(BN96-00380A)

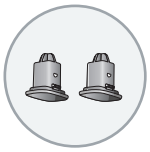
Stand Screw
(BN96-01013A) x 4



Ferrite Core (3301-001201)
x 2 (See Page 11)



Anynet Cable
(BN39-00518A)



Cover Bottom
(BN63-01544A) x 2

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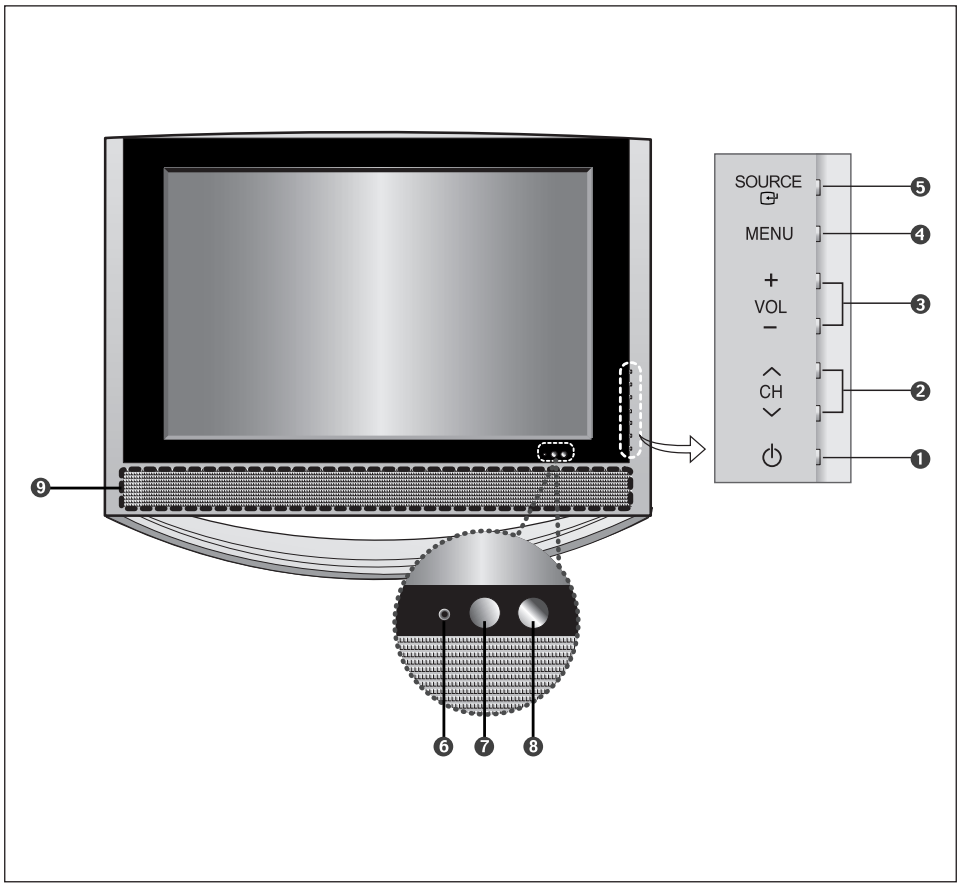
Familiarizing Yourself with Your New TV

Right-Side Panel Buttons

The buttons on the Right-side panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



1 ⏻(POWER)
Press to turn the TV on and off.

2 ∧CH∨
Press to change channels.
Also press to highlight various items on the on-screen menu.

3 + VOL –
Press to increase or decrease the volume.
Also used to select items on the on-screen menu.

4 MENU
Press to see an on-screen menu of your TV's features.

5 SOURCE
Displays a menu of all of the available input sources (TV, AV, S-VIDEO, Component 1, Component 2, HDMI, DVI, PC).

6 POWER INDICATOR
Lights red when TV is in standby mode.
Lights green after setting on/off timer.

7 REMOTE CONTROL SENSOR
Aim the remote control towards this spot on the TV.

8 LIGHT DETECTING SENSOR
Adjusts the brightness of the screen automatically by detecting brightness of the surrounding environment. This sensor works when the Brightness Sensor is on.

9 SPEAKER

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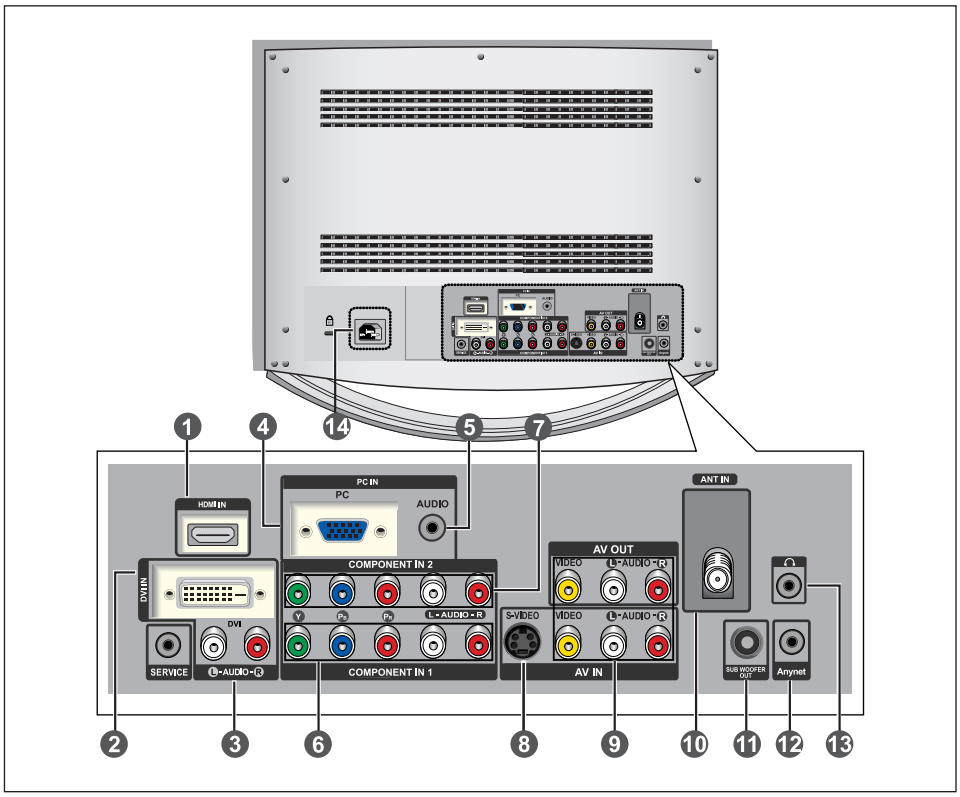
Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 7-14.



❶ **HDMI IN**
Supports connections between HDMI-connection-enabled AV devices (set top boxes, DVD players, AV receivers and digital TVs).

❷ **DVI-D IN**
Connect to the digital video output jack on your DVD/Set-top box.
(DVI-D terminal does not support PC.)

❸ **DVI-D AUDIO INPUT**
Connect to the audio output jack on your DVD/Set-top box.

❹ **PC VIDEO (D-SUB) INPUT**
Connect to the video output port on your PC.

❺ **PC AUDIO INPUT**
Connect to the audio output jack on your PC.

❻ **COMPONENT IN 1**
Connect component video/audio from a DVD/VCR/Set-top box.

❼ **COMPONENT IN 2**
Connect component video/audio from a DVD/VCR/Set-top box.

❽ **S-VIDEO INPUT**
Connect a Video signal from a camcorder or VCR

❾ **AV INPUT/OUTPUT**
Connect a Video signal from a camcorder or VCR.

❿ **ANT IN**
Connect to an antenna or to a cable TV system.

⓫ **SUBWOOFER OUTPUT**
Connect to an active (powered) subwoofer.

⓬ **ANYNET OUTPUT**

⓭ **HEADPHONE JACK**
Connect a set of external headphones for private listening.

⓮ **POWER INPUT**

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Remote Control

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player or Samsung Set-top box.

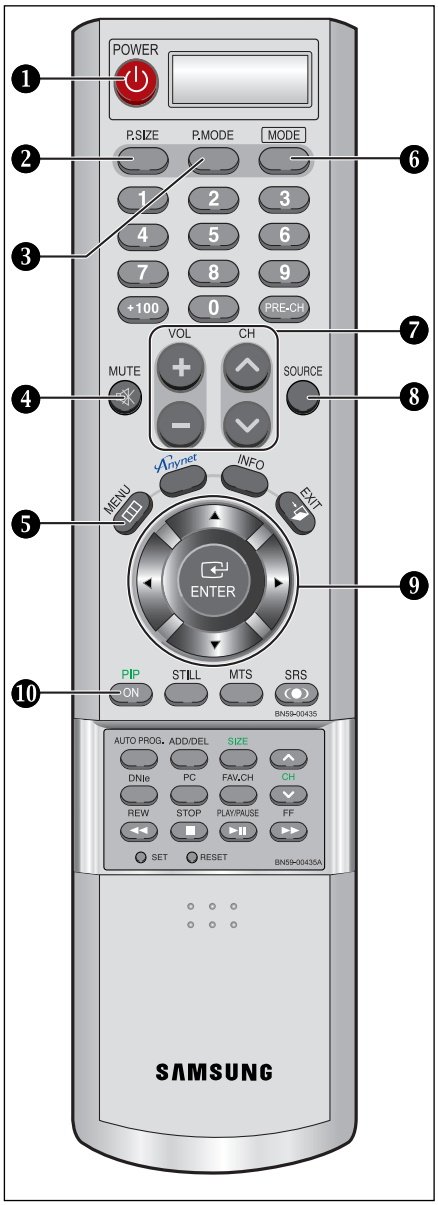
❶ POWER
Turns the TV on and off.
(See page 21)

❷ P.SIZE
Press to change the screen size.
(See page 48)

❸ P.MODE
Adjusts the TV picture by selecting one of the preset factory settings.
(See page 33)

❹ MUTE
Press to temporarily cut off the sound. (See page 21)

❺ MENU
Displays the main on-screen menu.(See page 22)



❻ MODE
Selects a target device to be controlled by the Samsung remote control (TV, VCR, CATV, DVD, Samsung STB)
(See pages 23~26)

❼ CH ∧ and CH ∨ (Channel UP/Down)
Press CH ∧ or CH ∨ to change channels. (See page 21)

VOL + and VOL -
Press to increase or decrease the volume. (See page 21)

❽ SOURCE
Press to display all of the available video sources.

❾ UP / DOWN / LEFT / RIGHT / ENTER
Use to select on-screen menu items and change menu values. (The remote control will only function with VCR or DVD units that are compatible with the LCD TV.)

❿ PIP FUNCTIONS
Picture-in-Picture ON/OFF
(See pages 41~42)

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⓫ +100
Press to select channels over 100. For example, to select channel 121, press “+100”, then press “2” and “1”. (See page 29)

⓬ Anynet
Press the Anynet button to bring up the Anynet menu. (See page 16)

⓭ STILL
Press to stop the action during a particular scene. Press again to resume normal video. (See page 48)

MTS
(Multi channel Television Stereo)
Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See page 52)

SRS
(See page 50)

⓮ AUTO PROG.
Press to automatically store selected TV/cable channels. (See page 29)

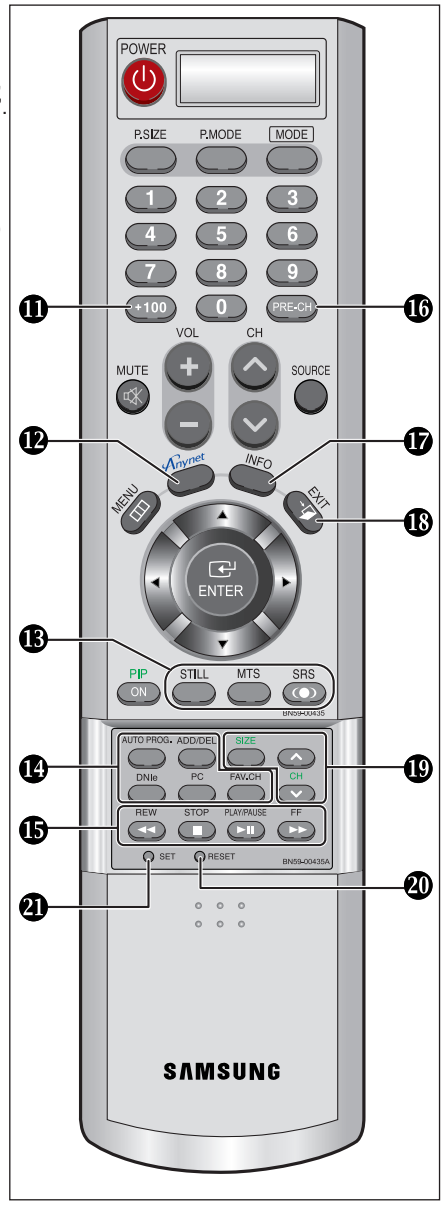
ADD/DEL
Use to store and delete channels to/from memory. (See page 30)

DNIe
Press to improve the digital video quality. (See page 43)

PC MODE
Press to switch to the PC mode. (See pages 66~70)

FAV.CH
Tunes to the channels in your favorite channel list. (See page 31)

⓯ VCR/DVD Functions
- Rewind
- Stop
- Play/Pause
- Fast/Forward



⓰ PRE-CH
Tunes to the previous channel. (See page 21)

⓱ INFO
Use to see information on the current broadcast. (See page 22)

⓲ EXIT
Press to exit the menu.

⓳ SIZE
Press to make the PIP window double, large or small. (See page 42)

∧ CH ∨
Displays the available channels in sequence. (These buttons change channels in the PIP window only.) (See page 42)

⓴ RESET
When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.

㉑ SET BUTTON
Adjusts 5 separate devices - TV, VCR, Cable, DVD, or Samsung Set-top box. (See pages 23~26)

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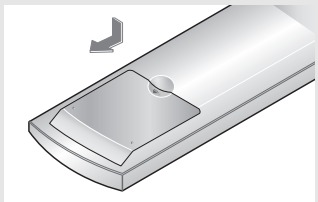
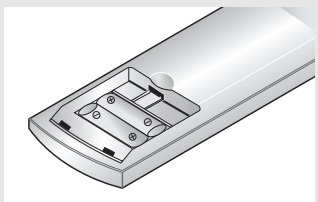
Installing Batteries in the Remote Control

1
Slide the cover out completely.

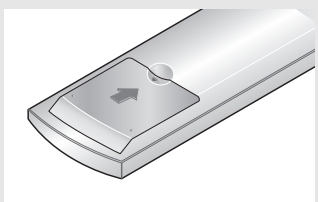


2
Install two AAA size batteries.



- Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.

3
Replace the cover.



- Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

  The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

If remote control doesn't work

Check the following:

1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

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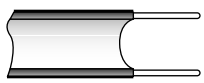
Chapter Two

INSTALLATION

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see “Antennas with 300-ohm Flat Twin Leads” below.



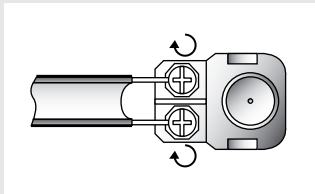
If your antenna has one lead that looks like this, see “Antennas with 75-ohm Round Leads” on page 8.

If you have two antennas, see “Separate VHF and UHF Antennas” on page 8.

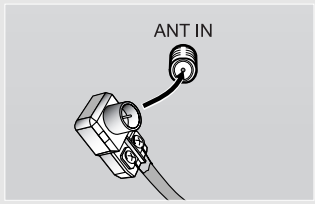
Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or “rabbit ears”) that has 300-ohm twin flat leads, follow the directions below.

1
Place the wires from the twin leads under the screws on a 300-75 ohm adaptor (not supplied). Use a screwdriver to tighten the screws.



2
Plug the adaptor into the ANT IN terminal on the bottom of the back panel.



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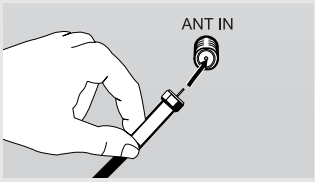
Antennas with 75-ohm Round Leads

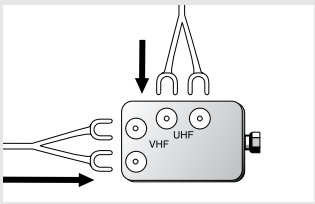
1
Plug the antenna lead into the ANT IN terminal on the bottom of the back panel.



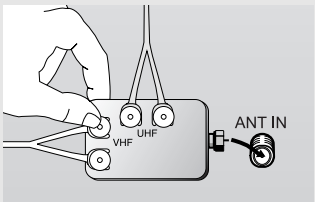
Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).

1
Connect both antenna leads to the combiner.



2
Plug the combiner into the ANT IN terminal on the bottom of the rear panel.

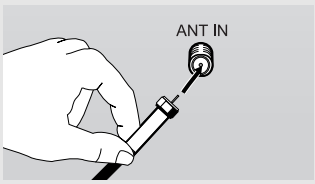


Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box

1
Plug the incoming cable into the ANT IN terminal on back of the TV.



◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

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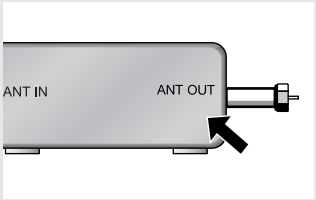
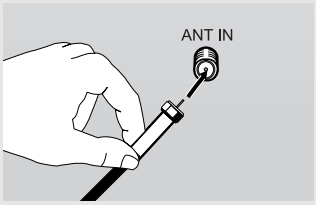
Connecting to a Cable Box that Descrambles All Channels

1
Find the cable that is connected to the ANT OUT terminal on your cable box.



◀ This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".

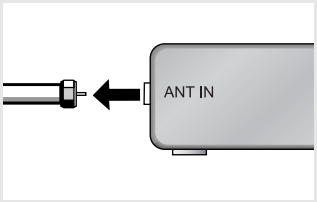
2
Connect the other end of this cable to the ANT IN terminal on the back of the TV.



Connecting to a Cable Box that Descrambles Some Channels

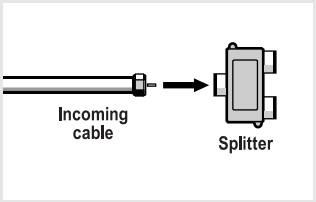
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of RF cable. (These items are available at most electronics stores.)

1
Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.

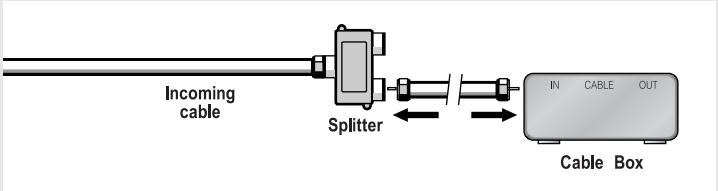


◀ This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".

2
Connect this cable to a two-way splitter.



3
Connect an RF cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



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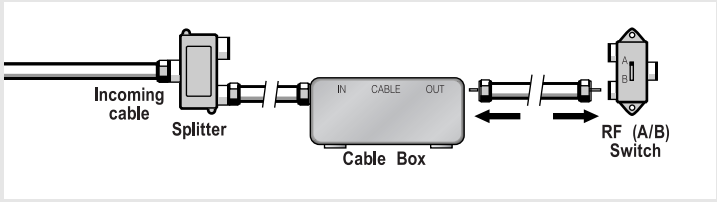
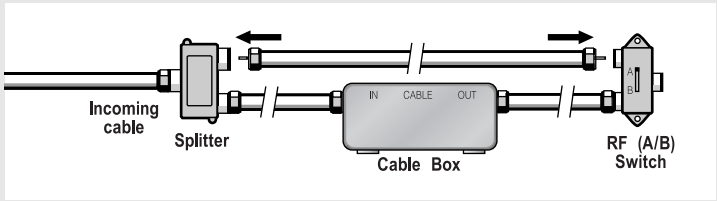
4

Connect an RF cable between the ANT OUT terminal on the cable box and the B–IN terminal on the A/B switch.



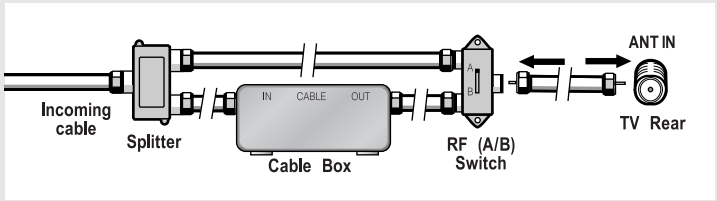
5

Connect another cable between the other OUT terminal on the splitter and the A–IN terminal on the RF (A/B) switch.



6

Connect the last RF cable between the OUT terminal on the RF (A/B) switch and the VHF/UHF terminal on the rear of the TV.



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

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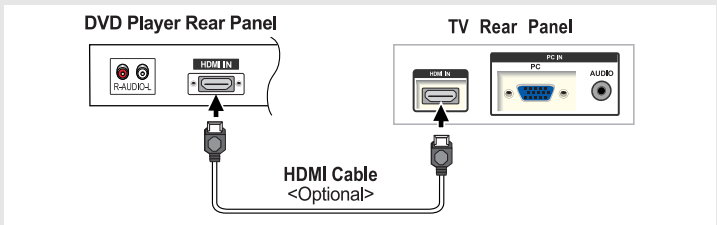
Connecting HDMI

Supports connections between HDMI-connection-enabled AV devices (Set Top boxes, DVD players, AV receivers and digital TVs).

1
Connect HDMI cable from the TV to the input terminal of the HDMI device.

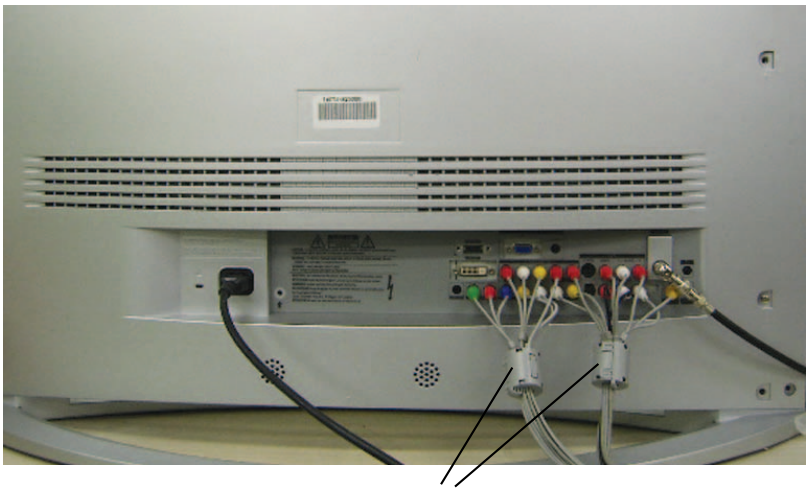


What is HDMI?

- **HDMI**, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.
- **HDMI** allows multiple channels of digital audio (5.1 channels).The difference between **HDMI** and **DVI** is that the **HDMI** device is smaller in size, has the **HDCP(High Definition Content Protection)** coding feature installed, and supports multi - channel digital audio.

How to Connect the Ferrite Cores

The provided Ferrite Cores reduce EMI (Electromagnetic Interference) noise from electrical or electronic products.
After connecting AV or Component cable to the TV, install the Ferrite Cores by placing them around the cables as shown in the picture.



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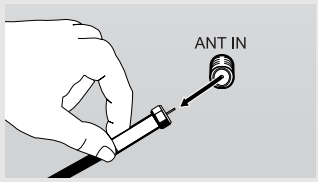
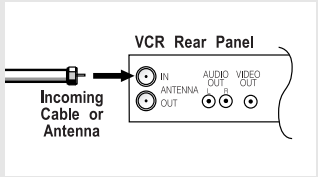
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-10).
Skip step 1 if you have not yet connected to an antenna or a cable system.

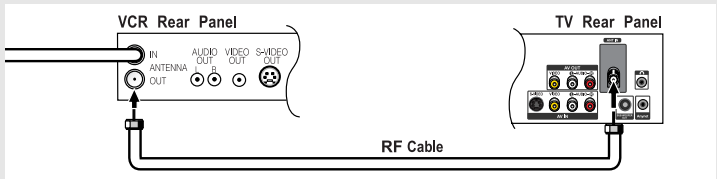
1
Unplug the cable or antenna from the back of the TV.



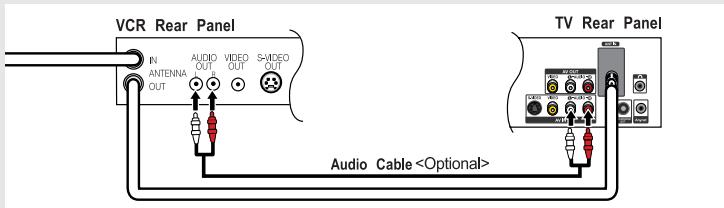
2
Connect the cable or antenna to the ANTENNA IN terminal on the back of the VCR.



3
Connect an RF Cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV.

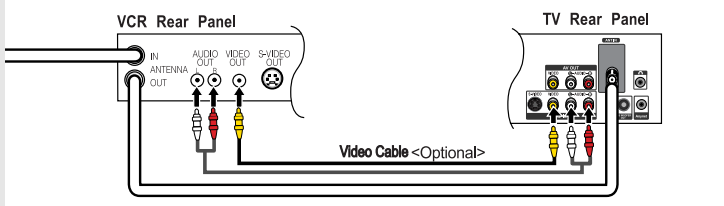


4
Connect an audio cable between the AUDIO OUT jacks on the VCR and the L-AUDIO-R jacks on the TV.



If you have a “mono” (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the left and right audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

5
Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.



Follow the instructions in “Viewing a VCR or Camcorder Tape” to view your VCR tape.

* Each external input source device has a different back panel configuration.

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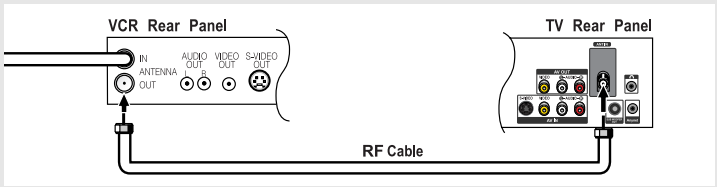
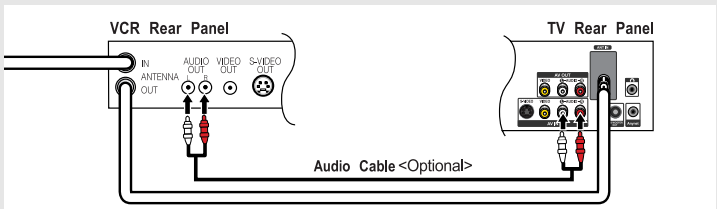
Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)

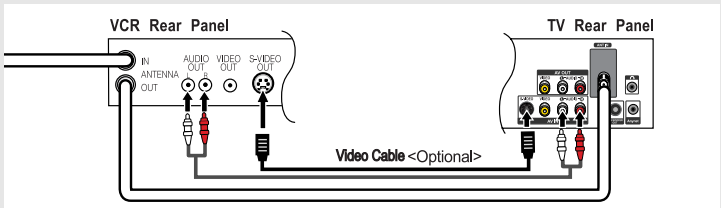
1
To begin, follow steps 1–3 in the previous section to connect the antenna or cable to your VCR and your TV.



2
Connect an audio cable between the AUDIO OUT jacks on the VCR and the L-AUDIO-R jacks on the TV.



3
Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO jack on the TV.

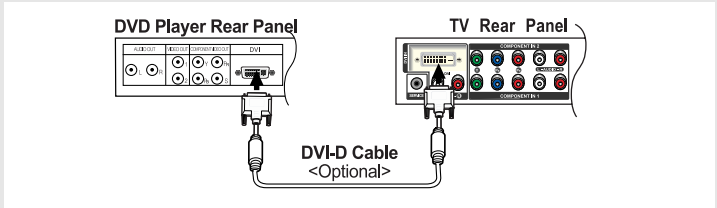


An S-Video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)

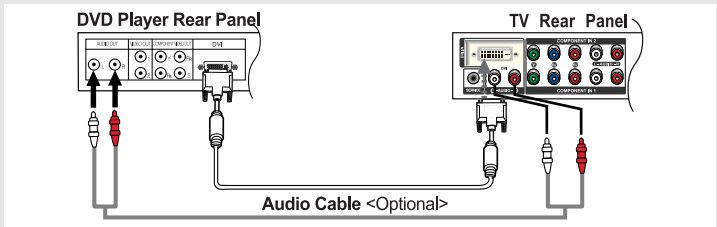
* Each external input source device has a different back panel configuration.

Connecting a DVI-D Cable

1
Connect a DVI-D cable between the DVI-D connector on the TV and the DVI connector on the DVD player/ Set-top box.



2
Connect an audio cable between the L-AUDIO-R jack on the TV and the AUDIO OUT jacks on the DVD player/ Set-top box.



* Each external input source device has a different back panel configuration.

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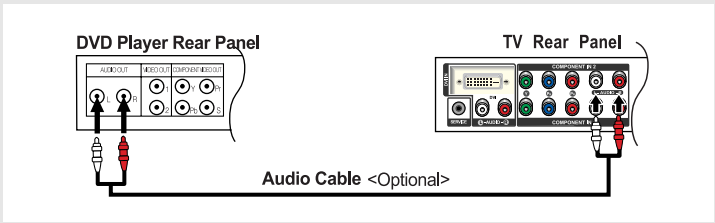
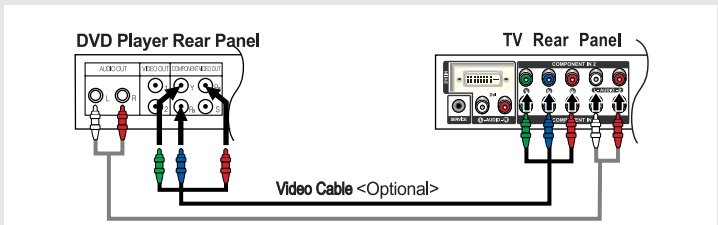
Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

1
Connect an audio cable between the COMPONENT1 or COMPONENT2 L-AUDIO-R jacks on the TV and the AUDIO OUT jacks on the DVD player.



2
Connect a video cable between the COMPONENT1 or COMPONENT2 (Y, P_B, P_R) jacks on the TV and the COMPONENT VIDEO OUT (Y, P_b, P_r) jacks on the DVD player.



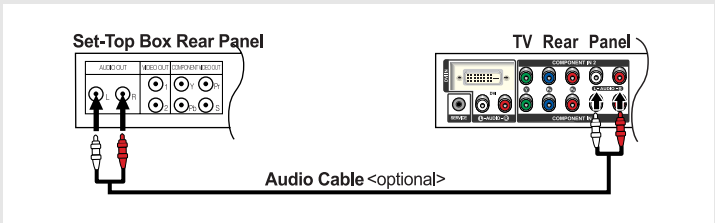
Note: For an explanation of component video, see your DVD player owner's manual.

* Each external input source device has a different back panel configuration.

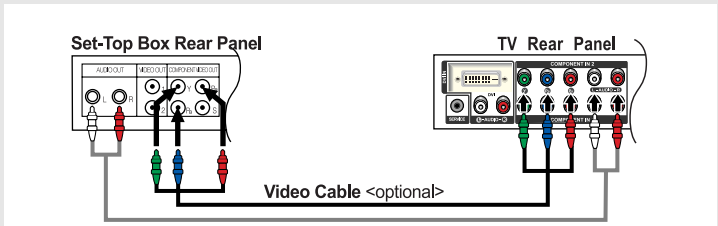
Connecting a Digital TV Set-Top Box

The connections for a typical set-top box are shown below.

1
Connect an audio cable between the COMPONENT1 or COMPONENT2 L-AUDIO-R jacks on the TV and the AUDIO OUT jacks on the Set-top box.



2
Connect a component video cable between the COMPONENT1 or COMPONENT2 (Y, P_B, P_R) jacks on the TV and the COMPONENT VIDEO OUT (Y, P_b, P_r) jacks on the Set-top box.



Note: For an explanation of Component video, see your Set-top box owner's manual.

* Each external input source device has a different back panel configuration.

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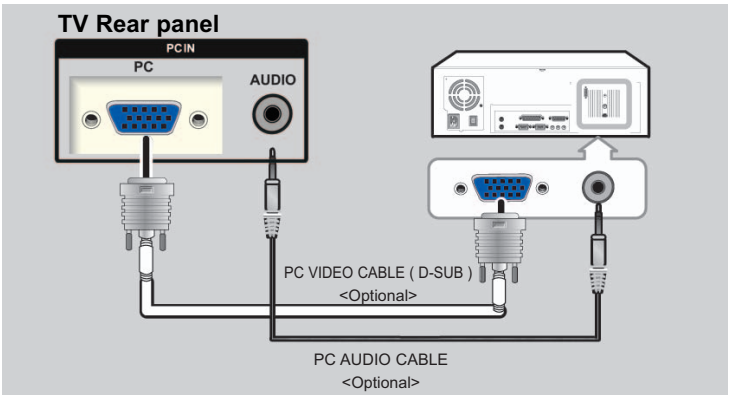
Connecting a PC

- Connect the D- Sub cable to "**PC (PC IN)**" on the rear of your set.
- Connect the stereo audio cable to "**AUDIO (PC IN)**" on the rear of your TFT-LCD and the other end to "Audio Out" of the sound card on your computer.



∗ Each external input source device has a different back panel configuration.

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Anynet

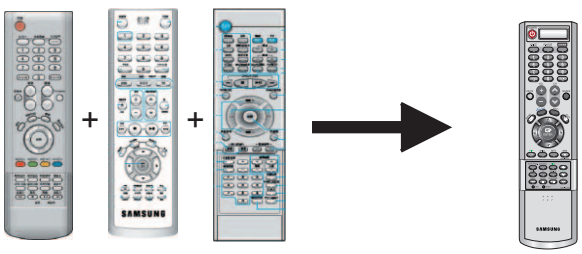
Please refer to Anynet AV Owner's Instructions' that is provided separately for the detailed information on Anynet.

1.What is the Anynet?

Anynet is an AV network system that enbles you to easily control Samsung audio-video (AV) devices from your through the Anynet menu via a Samsung TV.

[Anynet Features and Benefits]

- Anynet allows you to access most features of any device connected to your TV set from a single remote control.
  With Anynet, there is no need to use different remote controls for different devices. Moreover, there is no need to press separate buttons to switch devices.



- Just choose a function from the Anynet menu and the rest of the process required is performed automatically via the network linking the devices. It frees you from the inconvenience of pressing separate buttons on separate devices several times to perform a task.
  - Ex} To play a DVD: Regular (Three remote controls; nine button presses)
  - Through Anynet (One remote control; three button presses)

- The Anynet network allows the devices connected to exchange control commands with one another and check the operating status. As a result, you can use your TV remote control to control your DVD player when you Play DVDs and to control the STB when you watch the STB (set-top box) programs.

- You can switch easily and conveniently between listening to the program you are currently watching through your TV speakers or through Home Theater with 5.1 channel speakers.

[Anynet is most convenient when]

- You watch content from external input source device such as DVDs, STB programs or the VCR.
- You need to change channels, adjust the volume or skip scenes while you are watching content from an external input source device.
- You want to switch between the TV speakers and the 5.1 channel speakers while you are watching a program.

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2.Anynet

1. Anynet System is available only for Samsung Anynet-supported AV devices.
2. See below for Anynet-supported devices.
   (All devices except for 2 and 4 are soon to be added)

① DVD Player
② DVD/VCR Combo
③ DVD Recorder
④ DVD Receiver or Home Theater
⑤ DVD Recorder Combo
⑥ DVD Recorder Combo Receiver
⑦ AV Receiver
⑧ Satellite Set-Top Box
⑨ Cable Set-Top Box
⑩ HDTV Set-Top Box

☛ The Anynet does not support set-top box models T165 and K165.

3. All video cables are connected to the TV set.
4. Anynet System does not support more than one of the same type of devices.
5. One Anynet System menu can support up to two devices besides the TV.
6. Anynet System can support only one Home theater.
7. “Standard Connection” means a connection configuration in which no digital optical/RF cables are connected.
8. “Advanced Connection” means a connection configuration in which digital optical/RF cables are connected.
9. Anynet begins to operate when the Anynet-supported AV devices are plugged in and enter Standby mode.

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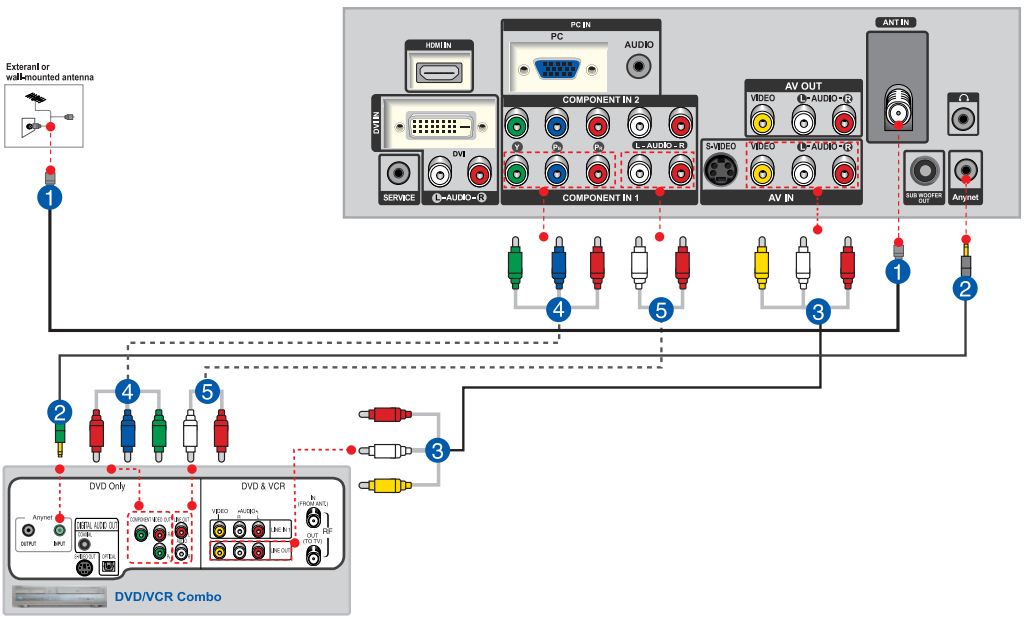
3. Connecting TV + DVD/VCR Combo: Connecting AV Signal Cables



How to Connect the Cables (Connect in the order of numbers shown in the diagram.)

1. Antenna Cable: Connect the external antenna cable to the ANT IN port on the TV.
2. Anynet Connector: To use the Anynet, connect the Anynet port on the TV and the Anynet Input port on the DVD Combo using the Stereo-Stereo Anynet connector.
3. AV Connector: If you do not have a Component cable, connect the A/V output jacks on the DVD/VCR Combo to the AV IN jacks on the TV.
4. Component Cable (Sold Separately): If you have the component connector cable, connect Component Video Out jacks (DVD only) on the DVD/VCR Combo to the Component 1 Video Input jacks on the TV.
5. Audio Cable: After you complete step 4, connect the Component Audio Output jacks (DVD only) on the DVD/VCR Combo and the Component Input 1 L-AUDIO-R jacks on the TV.

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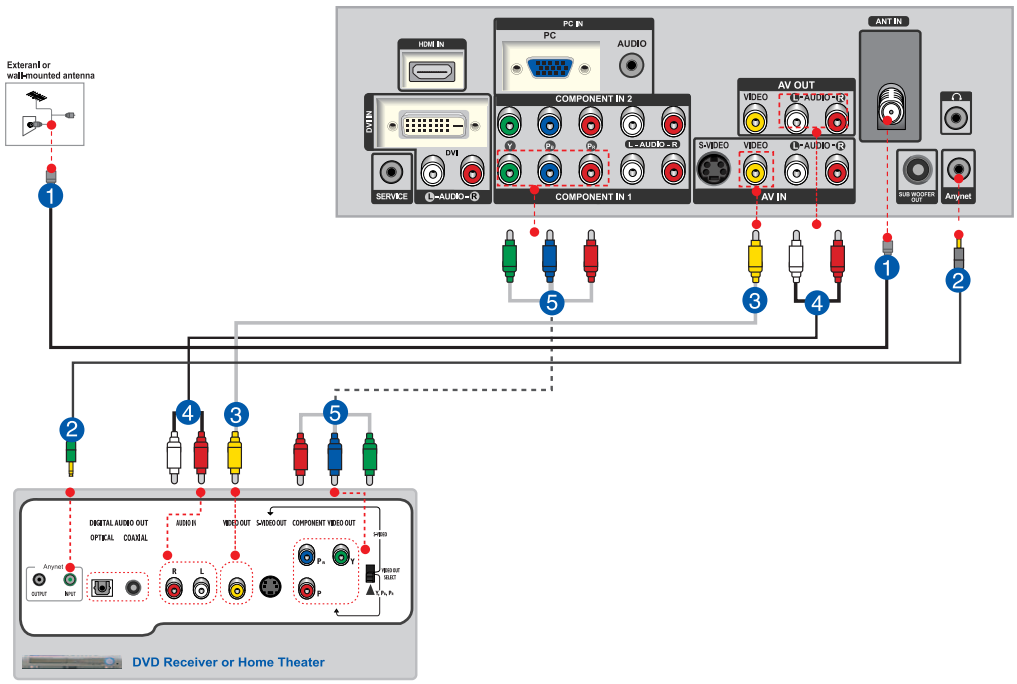
4. Connecting TV + DVD Receiver: Connecting AV Signal Cables



How to Connect the Cables (Connect in the order of numbers shown in the diagram.)

1. Antenna Cable: Connect the external antenna cable to the ANT Input port of the TV.
2. Anynet Connectors: To use the Anynet, connect the Anynet port on the TV and the Anynet Input port on the DVD Receiver using the Stereo-Stereo Anynet connector.
3. Video Connector: If you do not have the component connector, connect the Video Output port on the DVD Receiver and the AV IN port on the TV.
4. Audio Connector: Connect the L-AUDIO-R port of AV OUT on the TV and the Audio Input port on the DVD Receiver.
5. Component Connector (Sold Separately): If you have the component connector,connect the Color Difference Component Output port on the DVD Receiver and the Component Input 1 Y, P_B, P_R port on the TV.

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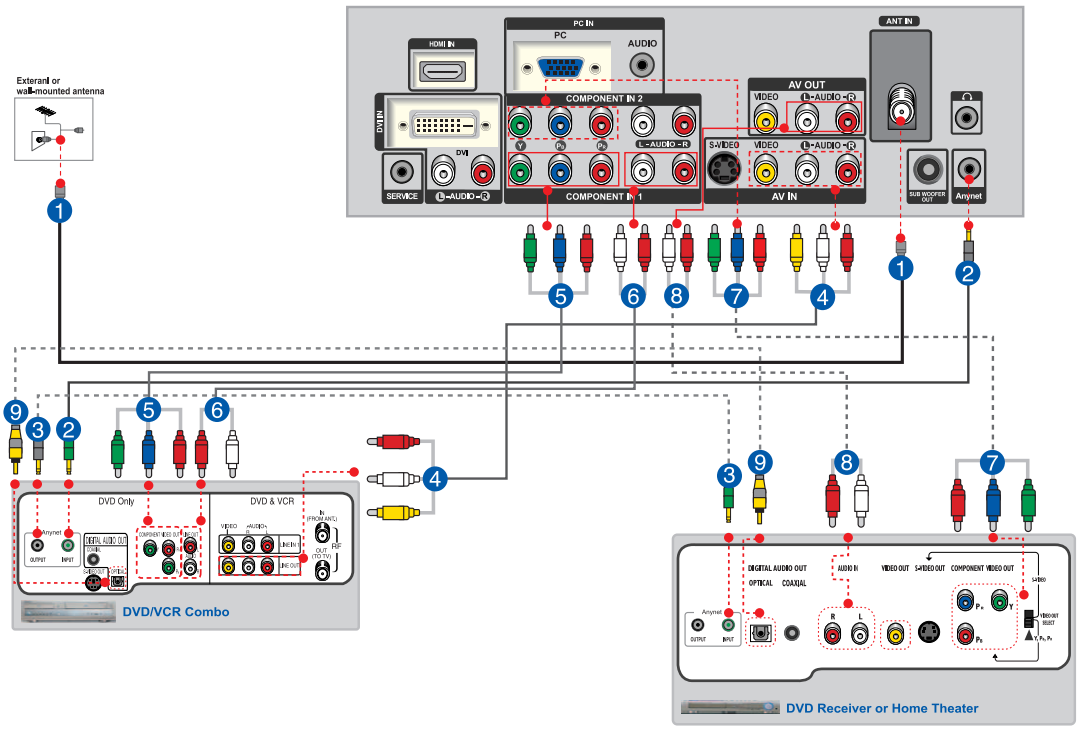
5. Connecting TV + DVD Combo + DVD Receiver: Connecting AV Signal Cables



How to Connect the Cables. (Connect in the order of numbers shown in the diagram.)

1. Antenna Cable: Connect the external antenna cable to the ANT IN port of the TV.
2. Anynet Connectors: To use Anynet, connect the Anynet port on the TV and the Anynet Input port on the DVD/VCR Combo using the Stereo-Stereo Anynet connector.
3. Anynet Connectors: To use Anynet, connect the Anynet Output port on the DVD/VCR Combo and the Anynet Input port on the DVD Receiver using the Stereo-Stereo Anynet connector.
4. AV Cable: If you do not have the component connector, connect the Output port of the AV output jacks on the DVD/VCR Combo to the AV IN jacks on the TV.
5. Component Connector (Sold Separately): If you have the component connector, Connect the Component Video Output jacks (DVD only) on the DVD/VCR Combo and the Component Input 1 “Y, P_B , P_R” jacks on the TV.
6. Audio Cable: Connect the L-AUDIO-R COMPONENT Audio In 1 jacks on the TV to the Analog Audio Output jacks on the DVD/VCR Combo.
7. Component Cable (Sold Separately): Connect Component Video Out jacks on the DVD Receiver to the COMPONENT Input 2 “Y, P_B , P_R” jacks on the TV.
8. Audio Cable: Connect the L-AUDIO-R port of Audio Output on the TV and the Audio Input port on the DVD Receiver.
9. Optical Cable (Sold Separately): If you have an optical cable, connect the Digital Audio Output Optical port on the DVD/VCR Combo to the Digital Input port on the DVD Receiver.
10. To enjoy 5.1-channel sound, go to “Set up” in the Anynet menu and select “Customized Setup”.

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Chapter Three

OPERATION

Turning the TV On and Off

Press the **POWER** ⏻ button on the remote.
You can also use the Power button on the front panel.

Changing Channels

Using the Channel Buttons

1
Press the **CH** ∧ / ∨ buttons to change channels.

When you press the **CH** ∧ / ∨ buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels). You will not see channels that were either erased or not memorized.

Using the PRE-CH Button to select the Previous Channel

1
Press the **PRE-CH** button.
The TV will switch to the last channel viewed.

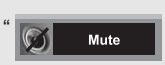
To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then use the PRE-CH button to quickly alternate between them.

Adjusting the Volume

1
Press the **VOL +/–** buttons to increase or decrease the volume.

Using Mute

At any time, you can temporarily cut off the sound using the **MUTE** button.

1
Press the **MUTE** button and the sound cuts off.
The word " 

" will appear in the lower-left corner of the screen.

2
To turn mute off, press the **MUTE** button again, or simply press the **VOL +/–** buttons.

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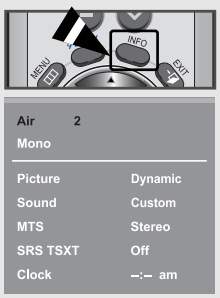
Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

1

Press the **INFO** button on the remote control.

The TV will display the channel, the type of sound, and the status of certain picture and sound settings.



◀ The on-screen displays disappear after about ten seconds.

◀ Press the INFO button once more or wait approximately 10 seconds and it disappears automatically.

◀ Allows the user to adjust the settings according to his/her preference and shows the current settings.

Viewing the Menus

1

With the power on, press the **MENU** button.

The main menu appears on the screen. It's left side has five icons: Input, Picture, Sound, Channel, Setup.

◀ The on-screen menus disappear from the screen after about two minutes.

2

Use the **UP/DOWN** ▲▼ buttons to select one of the 5 icons. Then press the **ENTER** button to access the icon's sub-menu.

3

Press the **EXIT** button to exit.

◀ You can also use the **MENU** , **CH** ∧ / ∨ , **VOL** +/–, and the ENTER buttons on the TV to make selections.

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Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD or Samsung Set-top box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

Note

The remote control might not be compatible with all DVD Players, VCRs and Cable boxes. This remote control is only compatible with Samsung Set-top boxes.

Setting Up the Remote to Operate Your VCR

1 Turn off your VCR.

2 Press the MODE button and make sure that the VCR appears on the LCD screen.

3 Press the **SET** button on your TV's remote control using a small pointed object.

4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 26 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a “0”. (If more than one code is listed, try the first one.)

5 Press the Power button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 072.

Note on Using Remote Control Modes: VCR

When your remote control is in “VCR” mode, the volume buttons still control your TV’s volume.

Setting Up the Remote to Operate Your Cable Box

1 Turn off your cable box.

2 Press the MODE button and make sure that the CATV appears on the LCD screen.

3 Press the **SET** button on your TV's remote control using a small pointed object.

4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 26 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a “0”.
If there is more than one code listed, try the first one.

5 Press the Power button on the remote control. Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 045.

Note on Using Remote Control Modes: Cable Box

When your remote control is in “CATV” mode, the volume buttons still control your TV’s volume.

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Setting Up the Remote to Operate Your DVD

1 Turn off your DVD.

2 Press the MODE button and make sure that the DVD appears on the LCD screen.

3 Press the **SET** button on your TV's remote control using a small pointed object.

4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 26 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a “0”.
If there is more than one code listed, try the first one.

5 Press the Power button on the remote control. Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 009.

Note on Using Remote Control Modes: DVD

When your remote control is in “DVD” mode, the volume buttons still control your TV’s volume.

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Remote Control Codes

VCR Codes

Brand	Code
Aiwa	025
Curtis Mathes	002 017 007 008 021 025 056 064 066
Funai	025
GE	017 002 021 005 056
Hitachi	019 025 041 042
JC Penny	002 007 018 019 021 026 037 041 054 056
Kenwood	007 008 018 026 037
Magnavox	021 036 056 059
Marantz	008 007 018 021 026 036 037 062
NEC	018 007 026 037 008 062 064
Panasonic	021 056 071 072
Philco	021 036 056 059
Philips	021 036
Pioneer	019 026 039 053
RCA	017 019 002 021 035 041 043 057 068
Samsung	000
Sanyo	018 024
Sears	018 019 006 024 028 029 041 048 051
Sharp	020 034 045 015
Sony	027 033 044
Sylvania	021 025 036 056 059
Toshiba	003 019 029 051 052

Cable Box Codes

Brand	Code
Hitachi	025 030
Panasonic	003 022 027 037 044
Philips	019 021 023 028
Pioneer	018 020 004 044
RCA	014 022 040
Samsung	000
zenith	017 029 035 037 045

DVD Codes

Brand	Code
Curtis Mathes	009
JVC	002
LG	006
ProScan, RCA	005
Panasonic	003
Samsung	000 001
Sony	007

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Plug & Play Feature

When the TV is initially powered on, two basic customer settings proceed automatically and subsequently: Setting Auto program, Clock.

1

Press the **POWER** ⏻ button on the remote control.

The message “Plug & Play” is displayed.

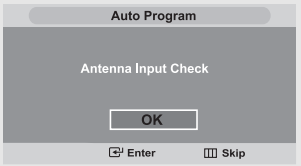
2

Select the appropriate language by pressing the **UP/DOWN** ▲▼ buttons.

Press the **ENTER** ↵ button to confirm your choice.

The message “Antenna Input Check”, is displayed with “OK” selected.

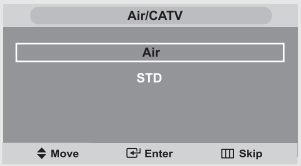
Press the **ENTER** ↵ button.

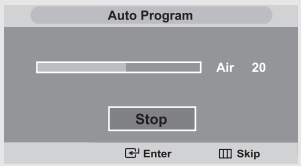


3

Press the **UP/DOWN** ▲▼ buttons to select “Air” or “STD”, then press the **ENTER** ↵ button.

Press the **ENTER** ↵ button to stop.

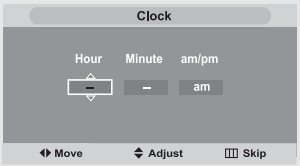




4

Press the **LEFT/RIGHT** ◀▶ buttons to move to the “Hour”, “Minute” or “am/pm”.

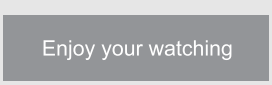
Set the hour or minute by pressing the **UP/DOWN** ▲▼ buttons. (Refer to “Setting the Clock” on page 56.)



5

Press the **MENU** ▥ button to confirm your setting.

The message “Enjoy your watching” is displayed.



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Memorizing the Channels

Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH ∧ and CH ∨ buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

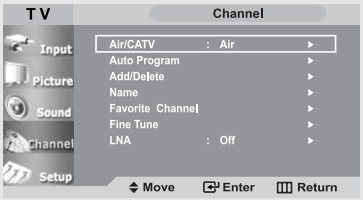
Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an antenna or a cable system).

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

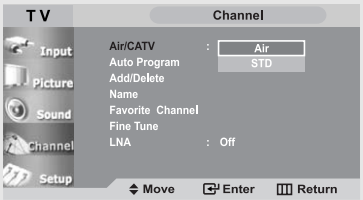


2

Press the ENTER Button to select "Air/CATV".

Repeatedly press the **UP/DOWN** ▲▼ buttons to cycle through these choices: “Air” or “STD”.

Press the **EXIT** button to exit.



At this point the signal source has been selected.
Proceed to “Storing Channels in Memory” (next page).

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Storing Channels in Memory (Automatic Method)

1

First, select the correct signal source (Air, STD). See steps 1~2 on previous page.

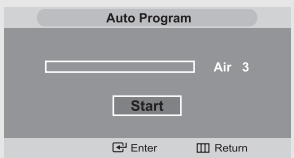
2

Press the **UP/DOWN ▲▼** buttons to select "Auto Program". Press the **ENTER** ↵ button.

3

Press the **ENTER** ↵ button to select "Start".

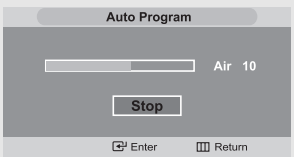
The TV will begin memorizing all of the available channels.



4

After all the available channels are stored, the "Auto Program" menu reappears.

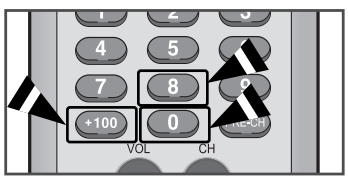
Press the **EXIT** button to exit.



◀ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press the **ENTER** ↵ button at any time to interrupt the memorization process and return to the "Channel" menu.

To select channels over 100

Ex) Press +100 → 0 → 8 to select channel 108.



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Adding and Erasing Channels (Manual Method)

1

Use the number buttons to directly select the channel to Add or Delete.

Press the **MENU** button to display the menu.

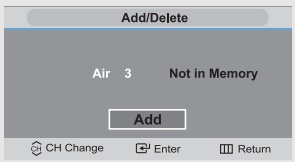
Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

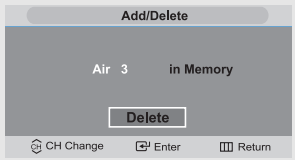
Press the **UP/DOWN** ▲▼ buttons to select “Add/Delete”.

Press the **ENTER** button.

Press the **ENTER** button to select “Add” or “Delete” (Pressing **ENTER** toggles between the two).

Press the **EXIT** button to exit.

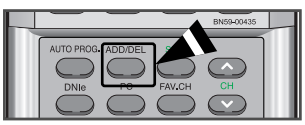




Alternate method:

Use the number buttons to directly select the channel that will be added or erased. Press the “**ADD/DEL**” button.

Repeatedly pressing the **ENTER** button will alternate between “Add” and “Delete”. Press the **EXIT** button to exit.



You can view any channel (including an erased channel) by using the number buttons on the remote control.

Labeling Channels

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “Name”, then press the **ENTER** button.

2

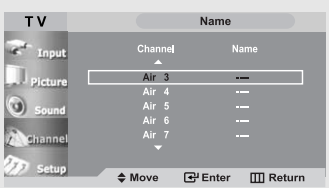
Press the **UP/DOWN** ▲▼ buttons to select a channel.

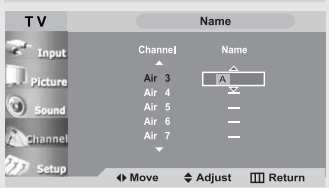
You can assign a name to a channel.

Press the **LEFT/RIGHT** ◀▶ buttons to move to “Labeling” and use the **UP/DOWN** ▲▼ buttons to assign a name.

Repeat this procedure to enter up to four characters.

Press the **EXIT** button to exit.





◀ The characters available:
- Letters of the alphabet (A~Z)
- Numbers (0~9)
- Special characters (space, -, *)

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To set-up your Favorite Channels

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

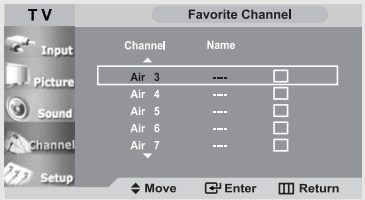
Press the **UP/DOWN** ▲▼ buttons to select “Favorite Channel”, then press the **ENTER** button.

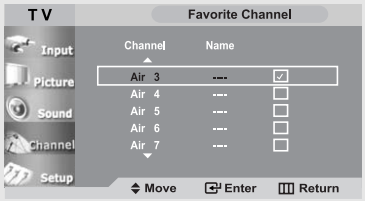
2

Press the **UP/DOWN** ▲▼ buttons to select your favorite channels to watch among the labeled channels.

Press the **ENTER** button to add a check mark to set the channel as a favorite channel.

Press the **EXIT** button to exit.





◀ Press the **ENTER** button again to clear the check mark.

3

To select the favorite channels you have set-up, press the **FAV.CH** button on the remote.

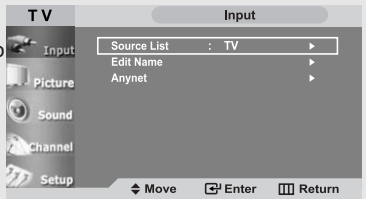
To Select Source

Use to select TV or other external input source connected to the TV.
Use to select the input source of your choice.

1

Press the **MENU** button to display the on-screen menu.

Press the **ENTER** button.



◀ If Connector is not connected, Source cannot be selected except TV. (in both main and sub-screen)

2

Press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select the Input source, then press the **ENTER** button.

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To Edit the Input Source Name

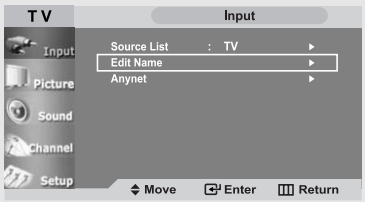
Name the input device connected to the input jacks to make your input source selection easier.

1

Press the **MENU** button to display the on-screen menu.

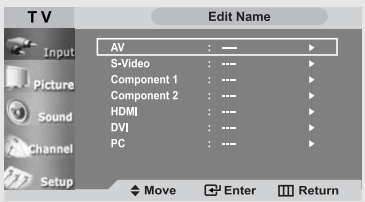
Press the **ENTER** button to select “Input”.

Press the **UP/DOWN** ▲▼ buttons to select “Edit Name”, then press the **ENTER** button.



2

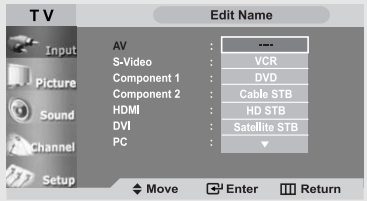
Press the **UP/DOWN** ▲▼ buttons to select “AV”, “S-Video”, “Component1”, “Component2”, “HDMI”, “DVI”, or “PC” input jack, then press the **ENTER** button.

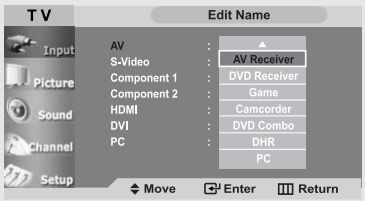


3

Press the **UP/DOWN** ▲▼ buttons to select “VCR”, “DVD”, “Cable STB”, “HD STB”, “Satellite STB”, “AV Receiver”, “DVD Receiver”, “Game", “Camcorder”, “DVD Combo”, “DHR(DVD HDD Recorder)”, or “PC” input source, then press the **ENTER** button.

Press the **EXIT** button to exit.





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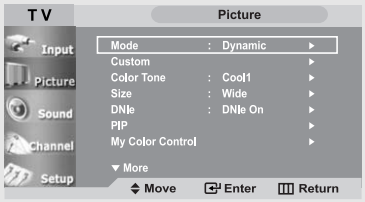
Using Automatic Picture Settings

Your TV has four automatic picture settings (“Dynamic”, “Standard”, “Movie”, and “Custom”) that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom by pressing P.MODE (or by making a selection from the menu). Or, you can select “Custom” which automatically recalls your personalized picture settings.

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.



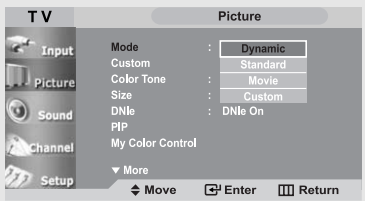
2

Press the **ENTER** button.

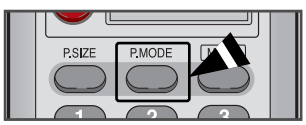
Press the **UP/DOWN** ▲▼ buttons to select the “Dynamic”, “Standard”, “Movie”, or “Custom” picture setting.

Press **ENTER** button.

Press the **EXIT** button to exit.



Alternate method:
Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.



- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when watching movies.
- Choose *Custom* if you want to adjust the settings according to personal preference (See “Customizing the Picture, page 34).

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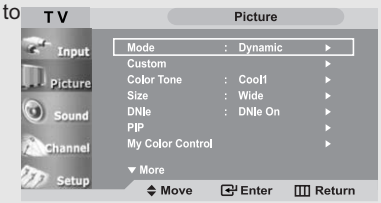
Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference.
(Alternatively, you can use one of the “automatic” settings. See the previous page.)

1

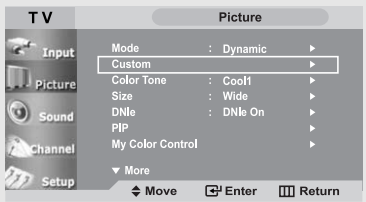
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.



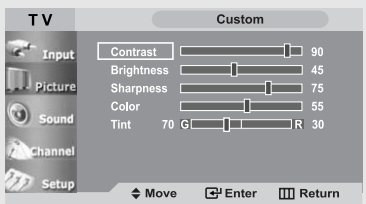
2

Press the **UP/DOWN** ▲▼ buttons to select “Custom”, then press the **ENTER** button.



3

Press the **ENTER** button to select “Contrast”, “Brightness”, “Sharpness”, “Color”, or “Tint”, then press the **ENTER** button.



- If you make any changes to these settings, the Picture Mode is automatically switched to Custom.
- In PC mode, only Contrast and Brightness can be adjust in Custom mode.

4

Press the **LEFT/RIGHT** ◀▶ buttons to decrease or increase the value of a particular item.

For example, if you select “Contrast”, pressing the **RIGHT** ▶ button increases it.

Press the **EXIT** button to exit.

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Using Automatic Sound Settings

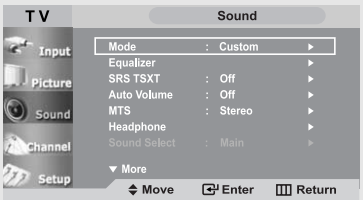
Your TV has five automatic sound settings (“Standard”, “Music”, “Movie”, “Speech”, and “Custom”) that are preset at the factory. You can select “Equalizer”, which automatically recalls your personalized sound settings.

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.

Press the **ENTER** button.

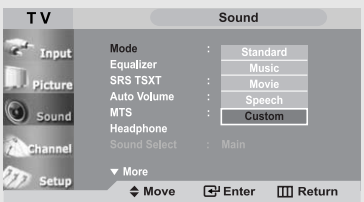


2

Press the **UP/DOWN** ▲▼ buttons repeatedly to select the “Standard”, “Music”, “Movie”, “Speech”, or “Custom” sound settings.

Press the **ENTER** button.

Press the **EXIT** button to exit.



- Choose *Standard* for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Movie* when watching movies.
- Choose *Speech* when watching a show that is mostly dialog (i.e. news).
- Choose *Custom* to recall your personalized settings.

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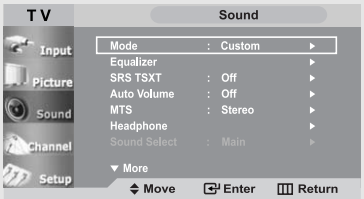
Customizing the Sound

The sound settings can be adjusted to suit your personal preference.
(Alternatively, you can use one of the “automatic” settings. See the previous page.)

1

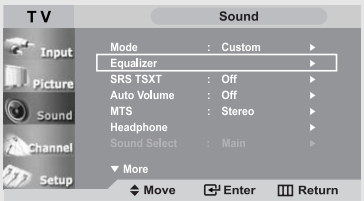
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Equalizer”, then press the **ENTER** button.

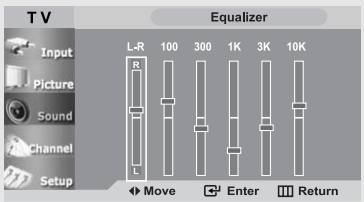


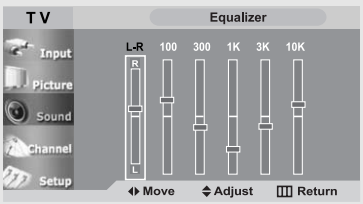
3

Press the **LEFT/RIGHT** ◀▶ buttons to select a particular item to be changed.

Press the **UP/DOWN** ▲▼ buttons to increase or decrease the value of a particular item.

Press the **EXIT** button to exit.





◀ If you make any changes to these settings, the Sound Mode is automatically switched to Custom.

Note : The Equalizer setting allows you to adjust frequencies to your preference.
The lowest frequency is 100 and 10K is the highest.

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Chapter Four

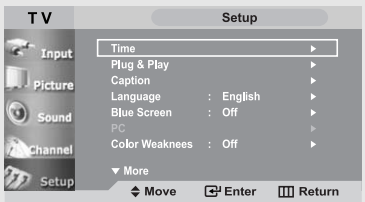
SPECIAL FEATURES

Selecting a Menu Language

1

Press the **MENU** button to display the menu.

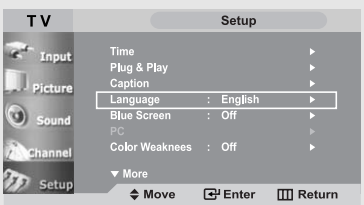
Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Language”.

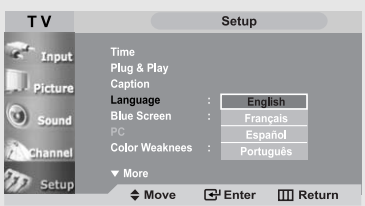
Press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “English”, “Français”, “Español”, or “Português”.

Press the **EXIT** button to exit.



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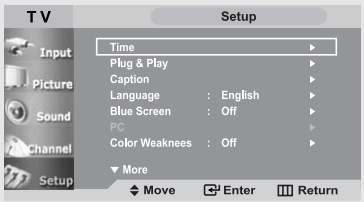
Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.
If you wish to continue viewing the poor picture, you must set the “Blue Screen” mode to “Off”.

1

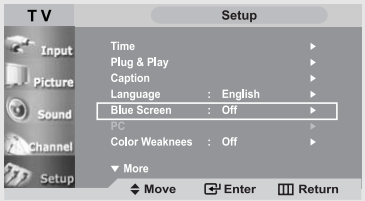
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



2

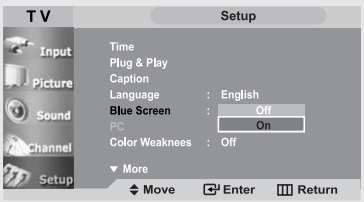
Press the **UP/DOWN** ▲▼ buttons to select “Blue Screen”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to set Blue Screen “On”.

Press the **EXIT** button to exit.



◀ Pressing the **UP/DOWN** ▲▼ buttons will alternate between “On” and “Off”.

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Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

1

Press the **MENU** button to display the menu.

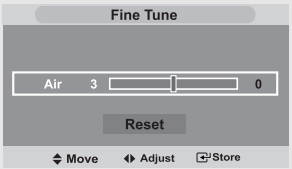
Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button twice.

2

Press the **UP/DOWN** ▲▼ buttons to select “Fine Tune”, then press the **ENTER** button.

3

Press the **LEFT/RIGHT** ◀▶ buttons to adjust the fine tuning.

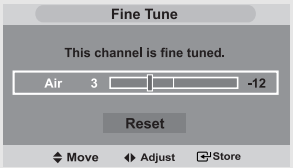


◀ If you do not store the fine-tuned channel in memory, adjustments are not saved.

4

To store the fine tuning setting in the TV’s memory, press the **ENTER** button.

Press the **EXIT** button to exit.



◀ Fine tuned channels that have been saved are marked with an asterisk “*”on the right-hand side of the channel number in the channel banner.

◀ To reset the fine tuning, select “Reset” by pressing the UP/DOWN ▲▼ button and then press the ENTER button.

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LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

2

Press the **UP/DOWN** ▲▼ buttons to select “LNA”, then press the **ENTER** button.

3

Press the **UP/DOWN** ▲▼ buttons to set LNA “On”.

Press the **EXIT** button to exit.

◀ Pressing the **UP/DOWN** ▲▼ buttons will alternate between “On” and “Off”.

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Viewing Picture-in-Picture

You can use the PIP feature to simultaneously watch two video sources.

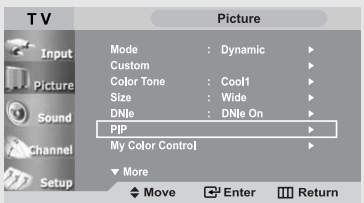
Activating Picture-in-Picture

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “PIP” then press the **ENTER** button.



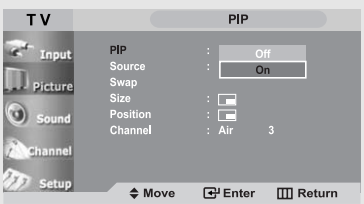
◀ Quick way to access the PIP menu: Simply press the PIP ON button on the remote control.

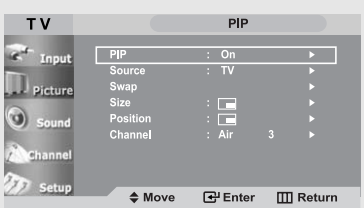
2

Press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “On”.

Press the **EXIT** button to exit.





◀ If you turn the TV off while watching and turn it on again, the PIP window will disappear.

PIP Settings

O : PIP operates
X : PIP doesn’t operate

Sub Picture / Main Picture	TV	AV	S-Video	COMP 1	COMP 2	HDMI	DVI	PC
TV	O	O	O	O	O	O	O	O
AV	O	O	O	O	O	O	O	O
S-Video	O	O	O	O	O	O	O	O
COMP 1	O	O	O	X	X	X	X	X
COMP 2	O	O	O	X	X	X	X	X
HDMI	O	O	O	X	X	X	X	X
DVI	O	O	O	X	X	X	X	X
PC	O	O	O	X	X	X	X	X

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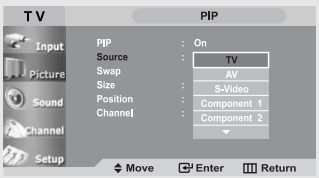
Selecting a Signal Source (External A/V) for PIP

3

Press the **UP/DOWN ▲▼** buttons to select “Source”, then press the **ENTER** button.

Select a source of the sub picture by pressing the **UP/DOWN ▲▼** buttons and press the **ENTER** button.

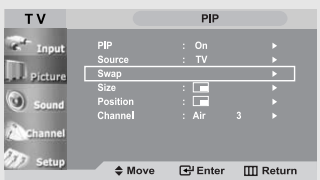


Note: If Connector is not connected, Source cannot be selected except TV. (in both main and sub-screen) Source selection is possible only when Component 1, Component 2, HDMI, DVI, or PC is connected.

Swapping the Contents of the PIP and Main image

4

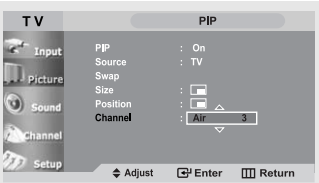
Press the **UP/DOWN ▲▼** buttons to select “Swap”, then press the **ENTER** button.

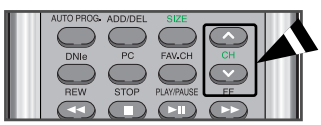


Changing the PIP Channel

5

Press the **UP/DOWN ▲▼** buttons to select “Channel”, then press the **ENTER** button.



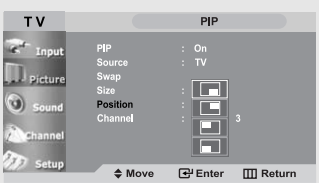


◀ You can select the channel that you want to view through sub picture by pressing the PIP Channel buttons under the cover of the remote.

Changing the Position of the PIP Window

6

Press the **UP/DOWN ▲▼** buttons to select “Position”, then press the **ENTER** button.

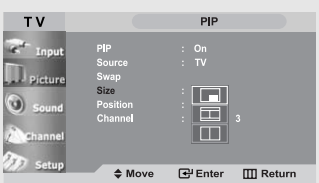


Changing the Size of the PIP Window

7

Press the **UP/DOWN ▲▼** buttons to select “Size”, then press the **ENTER** button.

Press the **EXIT** button to exit.



- When the PC is in energy saving mode, you cannot choose the PIP option.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- You can adjust picture position only by using the size menu.

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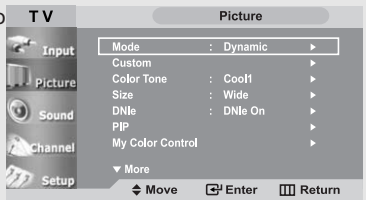
DNIe (Digital Natural Image engine)

Samsung's New Technology brings you more detailed images with contrast, white enhancement and 3D noise reduction.

1

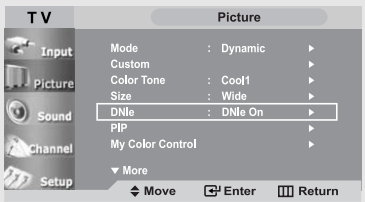
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select "Picture", then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select "DNIe", then press the **ENTER** button.

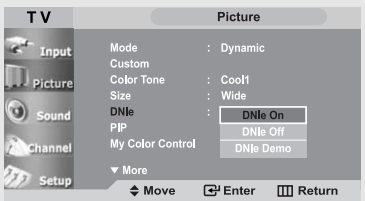


◀ This function doesn't work when Source is in PC mode.

3

Press the **UP/DOWN** ▲▼ buttons to select "DNIe On", "DNIe Off " or "DNIe Demo", then press the **ENTER** button.

Press the **EXIT** button to exit.



- DNIe On: Improved picture mode as demonstrated by DNIe Demo is activated.
- DNIe Off: The mode is deactivated and the screen returns to it's original condition.
- DNIe Demo: The screen shows the improved image on the left-hand side and the original image on the right-hand side.

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My Color Control

My Color Control is to adjust the most preferred colors such as Blue, Green, Pink without interfering with other colors in order for each consumer to enjoy screen color of their choice.

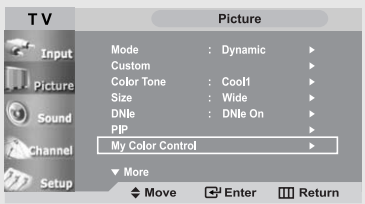
Easy Control

1

Press the **MENU** button to display the menu.

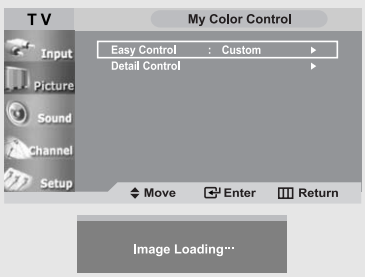
Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “My Color Control”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Easy Control”, then press the **ENTER** button.



◀ This function doesn’t work when Source is in PC mode, DNIe is set to off or PIP is set to on.

3

Press the **LEFT/RIGHT** ◀▶ buttons to select the desired My Color Control color, then press the **ENTER** button.

The Original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right.

◀ The sources are displayed in the following order: **Blue - Green - Pink - Standard - Custom**

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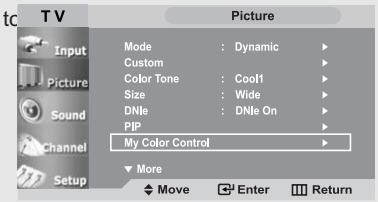
Detail Control

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.

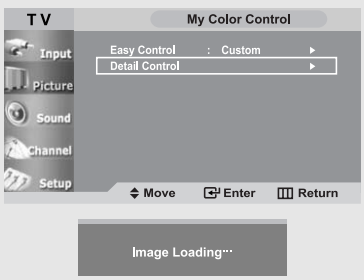
Press the **UP/DOWN** ▲▼ buttons to select “My Color Control”, then press the **ENTER** button.



◀ You can adjust Pink, Green and Blue without using the predefined settings in custom mode.

2

Press the **UP/DOWN** ▲▼ buttons to select “Detail Control”, then press the **ENTER** button.



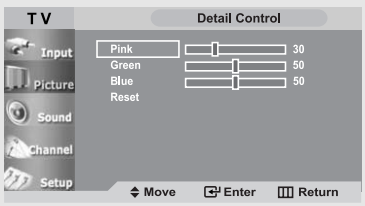
◀ This function doesn’t work when the Source is in PC mode, DNIe is set to off or PIP is set to on.

3

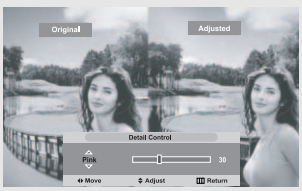
Press the **UP/DOWN** ▲▼ buttons to select the desired My Color Control color and press the **ENTER** button.

Press the **LEFT/RIGHT** ◀▶ buttons to increase or decrease the value of a particular item.

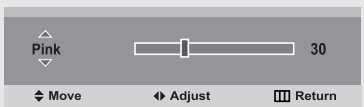
Press the **EXIT** button to exit.



◀ To reset the “Detail Control”, select “Reset” by pressing the UP/DOWN ▲▼ button and then press the ENTER button.)



◀ The sources are displayed in the following order : **Pink - Green - Blue - Reset**



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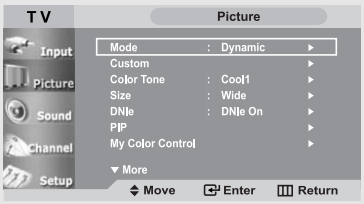
Dynamic Contrast

Dynamic Contrast detects the visual signal input and adjusts to create optimum contrast.

1

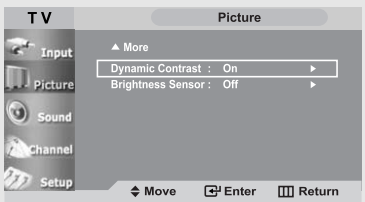
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.



2

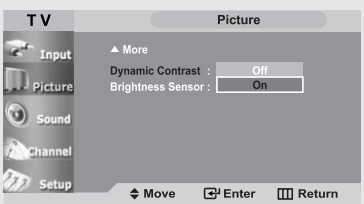
Press the **UP/DOWN** ▲▼ buttons to select “Dynamic Contrast”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “On”.

Press the **EXIT** button to exit.



◀ This function doesn’t work when the Source is in PC mode, DNIe is set to off or PIP is set to on.

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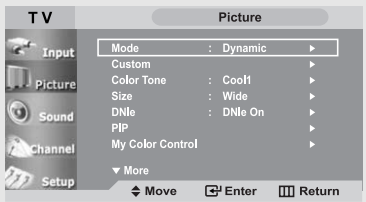
Brightness Sensor

The Brightness Sensor adjusts the screen brightness automatically by using a light detecting sensor.

1

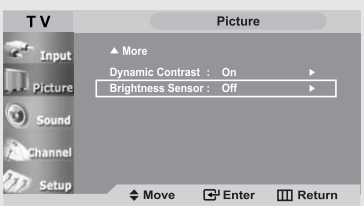
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Brightness Sensor”, then press the **ENTER** button.

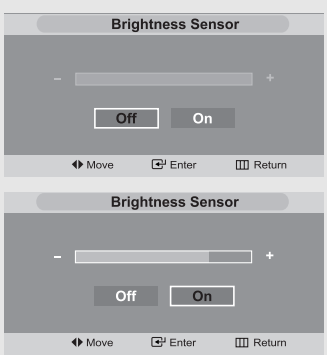


◀ This function doesn’t work when the Source is in PC mode.

3

Press the **LEFT/RIGHT** ◀▶ buttons to select “On”.

Press the **EXIT** button to exit.



◀ Screen brightness is adjusted automatically depending on the brightness of the surrounding environment.

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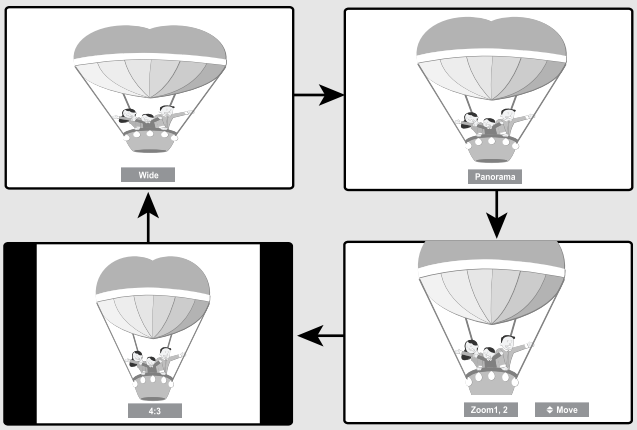
Changing the Screen Size

1

Press the **P.SIZE** button to change the screen size.



◀ Only wide and size of 4:3 can be selected for PC Source.

- Wide : Sets the picture to wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom 1,2 : Magnifies the size of the picture on screen.
- 4:3 : Sets the picture to 4:3 normal mode. This is the standard TV screen size.

Freezing the Picture

1

Press the **STILL** button to freeze a moving picture.

• Normal sound will still be heard.
Press again to cancel.

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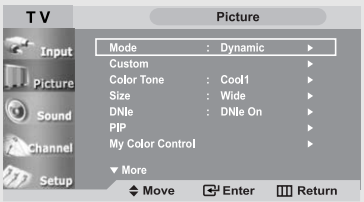
Adjusting the Color Tone

You can change the color of the entire screen according to your preference.

1

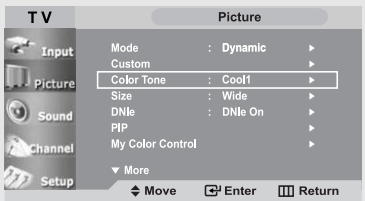
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Picture”, then press the **ENTER** button.



2

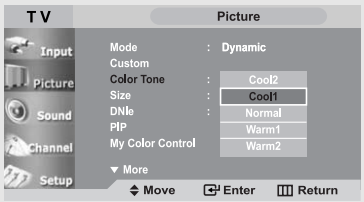
Press the **UP/DOWN** ▲▼ buttons to select “Color Tone”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “Cool 2”, “Cool 1”, “Normal”, “Warm 1”, or “Warm 2”.

Press the **EXIT** button to exit.



◀ Choose from the following Color Tone settings: “Cool 2”, “Cool 1”, “Normal”, “Warm 1”, “Warm 2” according to personal preference.

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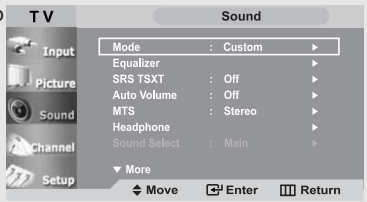
Setting the TruSurround XT (SRS TSXT)

Emphasizes midrange and bass and provides a simulated surround-sound experience.

1

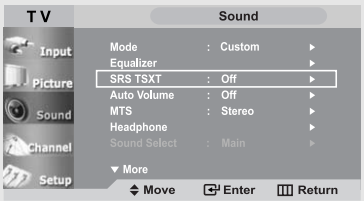
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

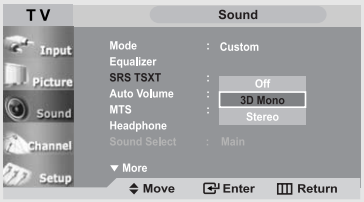
Press the **UP/DOWN** ▲▼ buttons to select “SRS TSXT”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “Off”, “3D Mono ”, “Stereo”, then press the **ENTER** button.

Press the **EXIT** button to exit.



TRADEMARK & LABEL LICENSE NOTICE

SRS TruSurround XT is a trademark of SRS Labs,Inc. **TruSurround XT** technology is incorporated under license from SRS labs, Inc.

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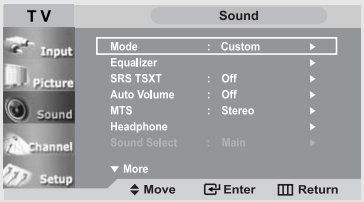
Automatic Volume Control

Reduces the differences in volume level among broadcasters.

1

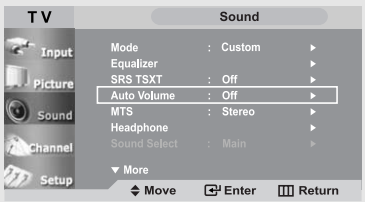
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

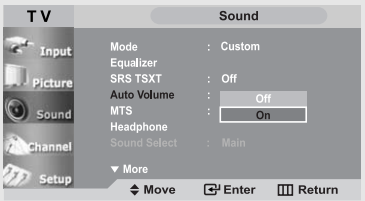
Press the **UP/DOWN** ▲▼ buttons to select “Auto Volume”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to set Auto Volume “On”.

Press the **EXIT** button to exit.



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Special Sound Options

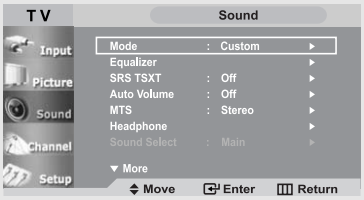
Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather).

1

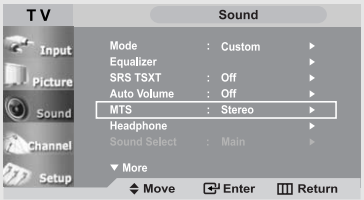
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

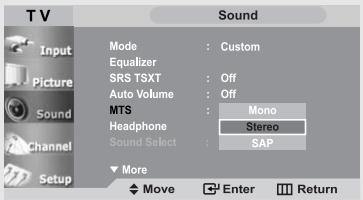
Press the **UP/DOWN** ▲▼ buttons to select “MTS”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “Mono”, “Stereo” or “SAP”, then press the **ENTER** button.

Press the **EXIT** button to exit.



- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

You can also change the MTS setting by pressing the “MTS” button on the remote control. (When you change channels, MTS is set to “Stereo” automatically. To listen in ‘SAP’ or ‘Mono,’ change the MTS setting).

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Adjusting the Headphone Sound

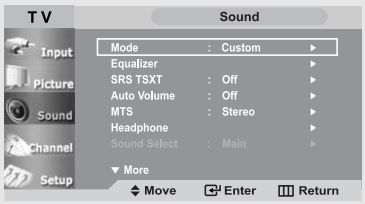
The headphone option is especially useful when simultaneously watching the main screen and the PIP window.

◀ Headphones must be purchased separately.

1

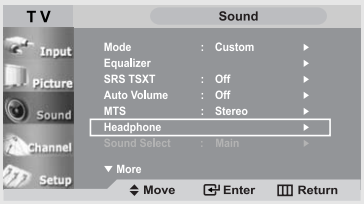
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



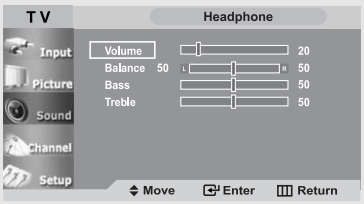
2

Press the **UP/DOWN** ▲▼ buttons to select “Headphone”, then press the **ENTER** button.



3

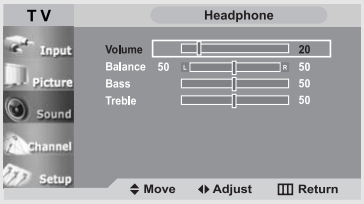
Press the **UP/DOWN** ▲▼ buttons to select the particular item to be changed.



4

Press the **LEFT/RIGHT** ◀▶ buttons to decrease or increase the value of a particular item.

Press the **EXIT** button to exit.



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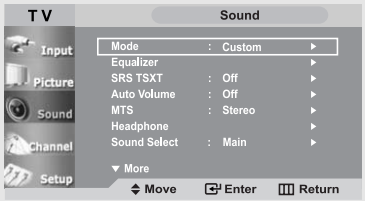
Selecting the Main or Sub Sound

You can select either Main or Sub when PIP is On.

1

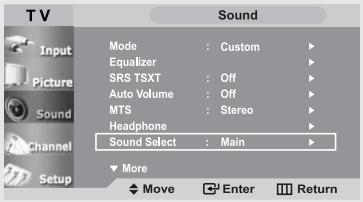
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

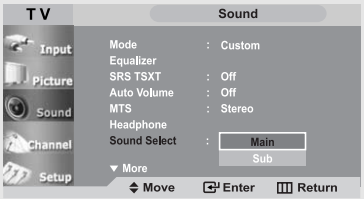
Press the **UP/DOWN** ▲▼ buttons to select “Sound Select”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons to select “Main” or “Sub”.

Select “Main” to hear the main TV sound and select “Sub” to hear the PIP window sound.



Press the **EXIT** button to exit.

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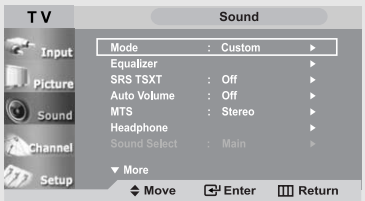
Subwoofer

The TV provides an output for hookup to an active (powered) subwoofer.

1

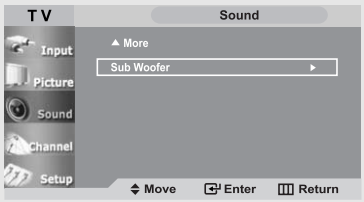
Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Sound”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Sub Woofer”, then press the **ENTER** button.



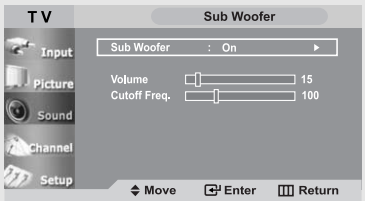
3

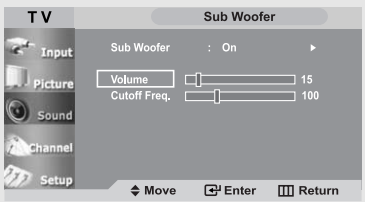
Press the **UP/DOWN** ▲▼ buttons to select the particular item to be changed.

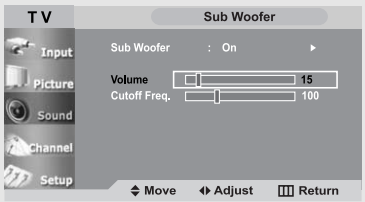
Press the **ENTER** button.

Press the **LEFT/RIGHT** ◀▶ buttons to decrease or increase the value of a particular item.

Press the **EXIT** button to exit.







◀ Subwoofers are used to emphasize bass. Adjust the cutoff frequency for the best bass response in your room

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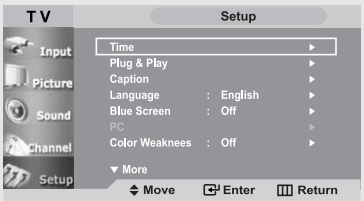
Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button).

1

Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



2

Press the **ENTER** button to select “Time”, then press the **ENTER** button to select “Clock”.

3

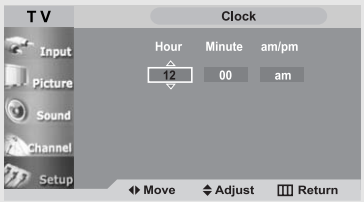
Press the **UP/DOWN** ▲▼ buttons repeatedly until the correct “Hour” appears.

After the hour is entered, press the **LEFT/RIGHT** ◀▶ buttons to select “Minute”.

Press the **UP/DOWN** ▲▼ buttons until the correct “Minute” appears.

Press the **LEFT/RIGHT** ◀▶ buttons to select “am/pm” and adjust with the **UP/DOWN** ▲▼ buttons.

Press the **EXIT** button to exit.



◀ You can also set the time using the numeric buttons on the remote.

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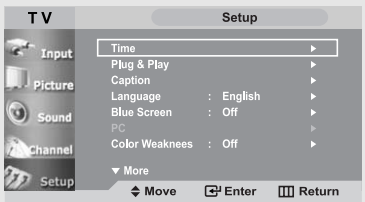
Setting the On/Off Timer

1

Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

Press the **ENTER** button to select “Time”.



◀ Before using the timer, you must set the TV’s clock. (See “Setting the Clock” on page 56)

2

Press the **UP/DOWN** ▲▼ buttons to select “On Timer”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons repeatedly to select the appropriate “Hour”.

Press the **LEFT/RIGHT** ◀▶ buttons to select “Minute”

Press the **UP/DOWN** ▲▼ buttons repeatedly to select the appropriate “Minute”.

Press the **LEFT/RIGHT** ◀▶ buttons to select “am/pm”

Press the **UP/DOWN** ▲▼ buttons repeatedly to select the appropriate “am/pm”.

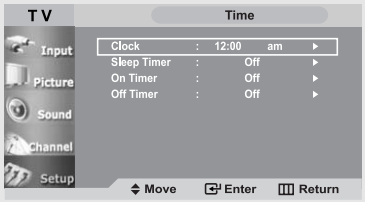
Press the **LEFT/RIGHT** ◀▶ buttons to select “Channel”

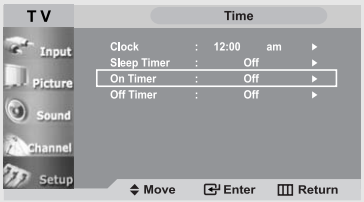
Press the **UP/DOWN** ▲▼ buttons repeatedly to select the appropriate “Channel”.

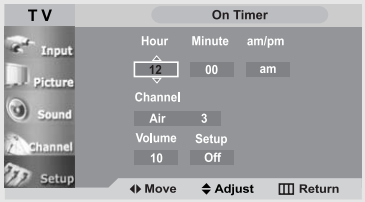
Press the **LEFT/RIGHT** ◀▶ buttons to select “Volume”

Press the **UP/DOWN** ▲▼ buttons repeatedly to select the appropriate “Volume”.

(i.e. the time when the TV will turn on).







◀ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the time.

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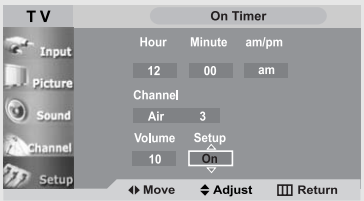
3

Press the **LEFT/RIGHT** ◀▶ buttons to select “Setup”.

Press the **UP/DOWN** ▲▼ buttons to On Timer “On”. (Repeatedly pressing the **UP/DOWN** ▲▼ buttons will alternate between On and Off).

When finished, press the **ENTER** ↵ button.

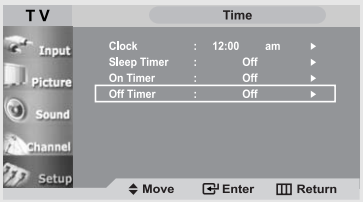


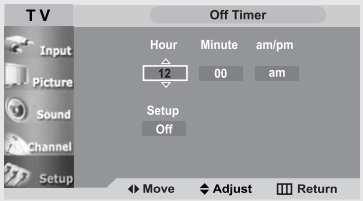
◀ To deactivate the “On Timer,” select “Off” during this step.

4

To set the Off time, press the **UP/DOWN** ▲▼ buttons to select “Off Timer”.

Press the **ENTER** ↵ button and set the hours and minutes. (Follow the same procedure as in steps 2 and 3 above).





5

When finished setting the timer, press the **EXIT** button to exit.

- **Auto Power Off**

  When you set the timer on, your television will be turned off if you do not operate any controls for 3 hours after the TV has been turned on with the ‘Timer On’ function. ‘Auto power off’ operates only when the TV has been turned on by the 'Timer on' function.

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Setting the Sleep Timer

Set the timer for the TV to turn off at the preset time automatically.

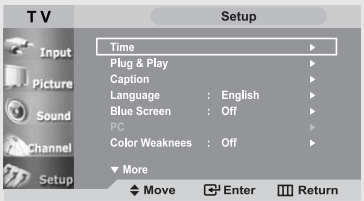
Sleep timer

1

Press the **MENU** button to display the on-screen menu.

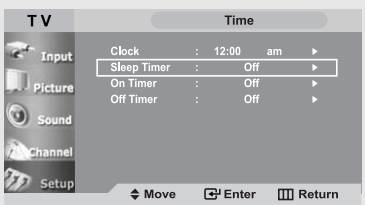
Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

Press the **ENTER** button to select “Time”.



2

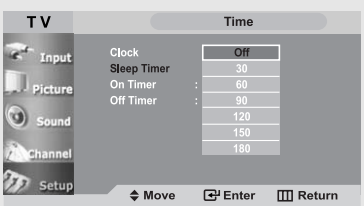
Press the **UP/DOWN** ▲▼ buttons to select “Sleep Timer”, then press the **ENTER** button.



3

Press the **UP/DOWN** ▲▼ buttons repeatedly until the correct time appears.

Press the **EXIT** button to exit.



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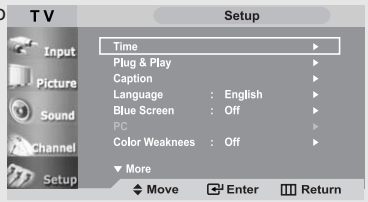
Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging : CC .

1

Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select "Setup", then press the **ENTER** button.

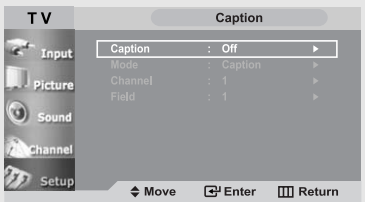


2

Press the **UP/DOWN** ▲▼ buttons to select "Caption", then press the **ENTER** button.

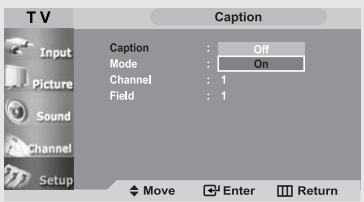
3

Press the **ENTER** button.



4

Press the **UP/DOWN** ▲▼ buttons to set caption "Off" or "On", then press the **ENTER** button.



5

Depending on the particular broadcast, it might be necessary to alter the settings to "Channel" and "Field".

◀ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish).

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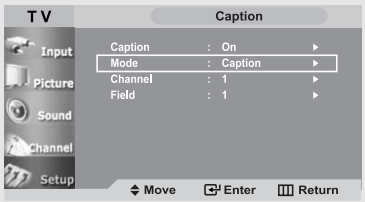
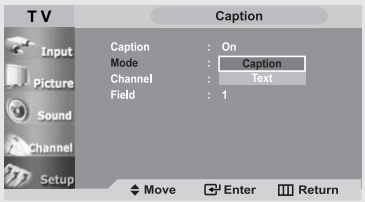
6

Press the **UP/DOWN** ▲▼ buttons to select “Mode”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to set “Cation” or “Text”, then press the **ENTER** button.

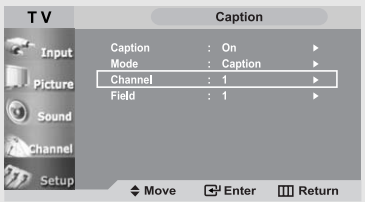


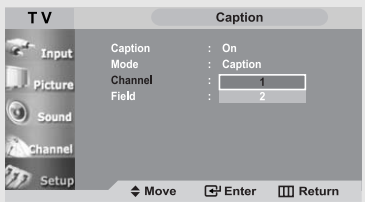


7

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “1” or “2”, then press the **ENTER** button.



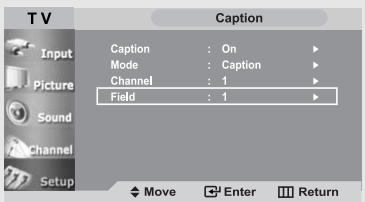


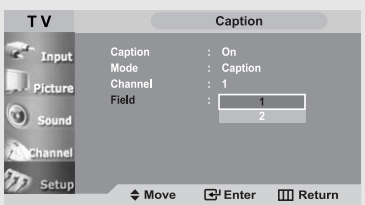
8

Press the **UP/DOWN** ▲▼ buttons to select “Field”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “1” or “2”, then press the **ENTER** button.

Press the **EXIT** button to exit.





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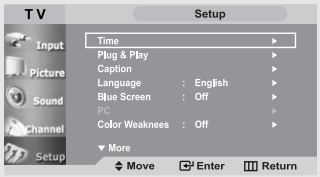
Color Weakness

This feature enables those with color weakness to view images as those with normal color vision do. The feature provides nine different color adjustment layers for red, green and blue.

1

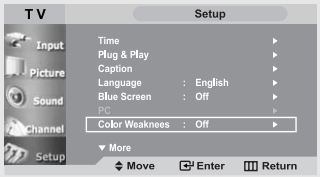
Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



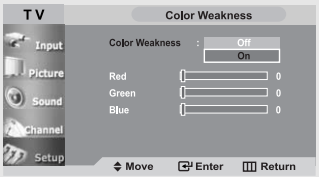
2

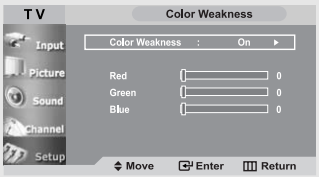
Press the **UP/DOWN** ▲▼ buttons to select “Color Weakness”, then press the **ENTER** button.



3

Press the **ENTER** button and then press the **UP/DOWN** ▲▼ buttons to select “On”, then press the **ENTER** button.





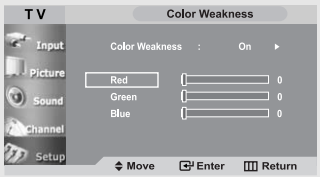
◀ This function doesn’t work when the Source is in PC mode, or DNIe is set to off.

4

Press the **UP/DOWN** ▲▼ buttons to select “Red”, “Green”, “Blue”.

Press the **LEFT/RIGHT** ◀▶ buttons to decrease or increase the value of a particular item.

Press the **EXIT** button to exit.



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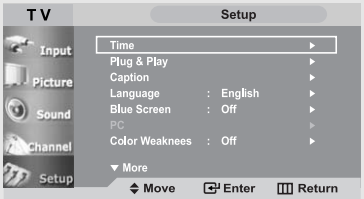
Selecting the Melody

You can hear a melody sound when the television is powered on or off.

1

Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Melody”, then press the **ENTER** button.

3

Press the **UP/DOWN** ▲▼ buttons to select “On”.

Press the **EXIT** button to exit.

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Activating the Child Lock

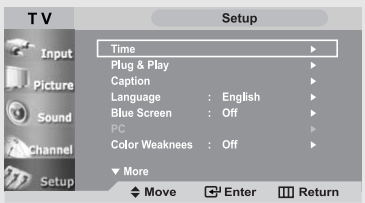
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.

Note: This function does not work in PC mode.

1

Press the **MENU** button to display the on-screen menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.



2

Press the **UP/DOWN** ▲▼ buttons to select “Child Lock”, then press the **ENTER** button.

Press the **ENTER** button.

3

Press the **UP/DOWN** ▲▼ buttons to select "On", then press the **ENTER** button.

◀ Select "Off" to deactivate "Child lock".

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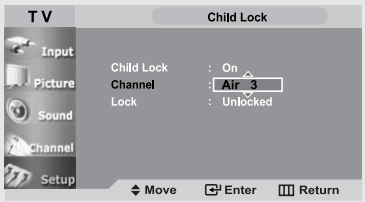
4

Press the **UP/DOWN** ▲▼ buttons to select “Channel”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select the channels to lock.

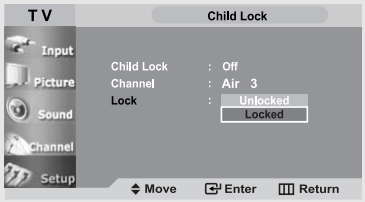
Press the **ENTER** button.



5

Press the **UP/DOWN** ▲▼ buttons to select “Lock”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select "Locked" to lock the channels.



◀ Lock icon appears next to the locked channels.

“ Air 3 ”

6

Repeat step 4 and 5 to lock or unlock channels.

Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

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Chapter Five

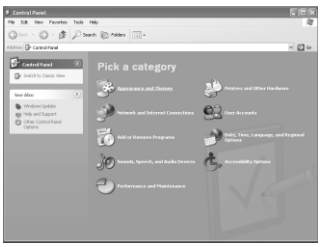
PC DISPLAY

Using Your TV as a Computer (PC) Display

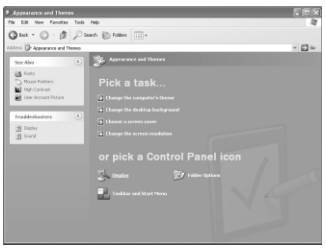
How to Set up Your PC Software (Windows XP)

The Windows display-settings for a typical computer are shown below.
However, the actual screens on your PC will probably look different, depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same, basic set-up information will apply in most cases.
(If not, contact your computer manufacturer or Samsung Dealer).

1 First, click on "**Control Panel**" on the Windows start menu.



2 When the control panel window appears, click on "**Appearance and Themes**" and a display dialog-box will appear.



3 When the control panel window appears, click on "**Display**" and a display dialog-box will appear.

4 Navigate to the "**Settings**" tab on the display dialog-box.

The correct size setting (resolution)
- LN32A32B : 1280 X 768 pixels

If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**". Otherwise, just click "**OK**" and exit the dialog box.

*See "Display Modes" on page 82.

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How to Auto Adjust

Use the Auto Adjust function to have the TV set automatically adjust the video signals the monitor receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

Press the PC button on the remote control to select the PC mode.

1

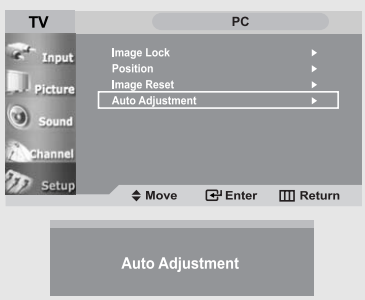
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “PC”, then press the **ENTER** button.

2

Press the **UP/DOWN** ▲▼ buttons to select “Auto Adjust”, then press the **ENTER** button.



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Adjusting the Screen Quality

The purpose of the picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

Press the PC button on the remote control to select the PC mode.

1

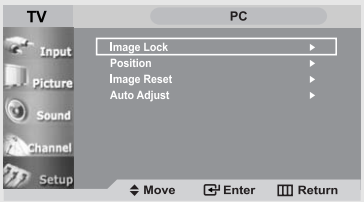
Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “PC” then press the **ENTER** button.

2

Press the **ENTER** button to select “Image Lock”.

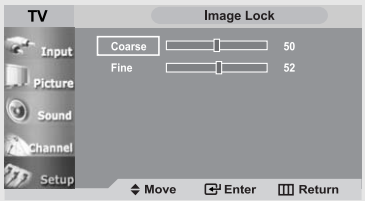


3

Press the **UP/DOWN** ▲▼ buttons to select “Coarse” or “Fine”, then press the **ENTER** button.

Press the **LEFT/RIGHT** ◀▶ buttons to adjust the screen quality. Vertical stripes may appear or the picture may be blurry.

Press the **EXIT** button to exit.



<Adjusting Coarse>

<Adjusting Fine>

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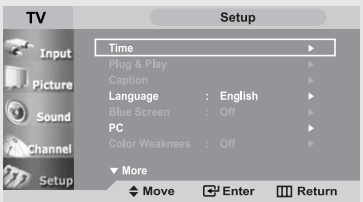
Changing the Screen Position

Press the PC button on the remote control to select the PC mode.

1

Press the **MENU** button to display the menu.

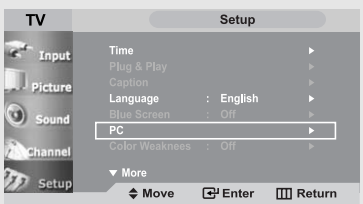
Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

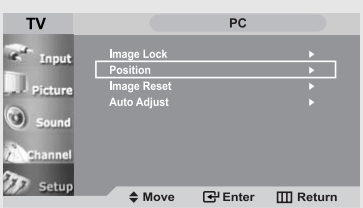


2

Press the **UP/DOWN** ▲▼ buttons to select “PC”, then press the **ENTER** button.

Press the **UP/DOWN** ▲▼ buttons to select “Position”, then press the **ENTER** button.



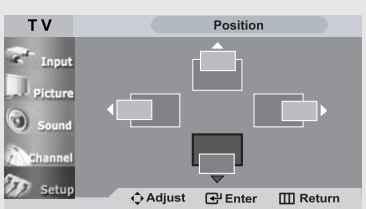


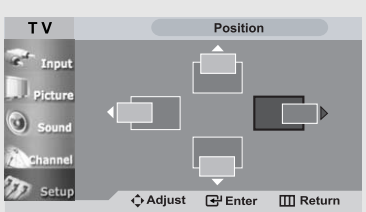
3

Press the **UP/DOWN** ▲▼ buttons to adjust the V-Position.

Press the **LEFT/RIGHT** ◀▶ buttons to adjust the H-Position.

Press the **EXIT** button to exit.





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Initializing the Screen Position or Color Settings

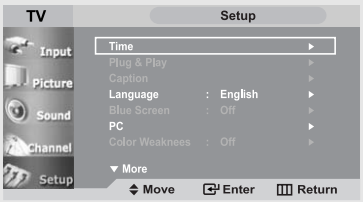
Press the PC button on the remote control to select the PC mode.

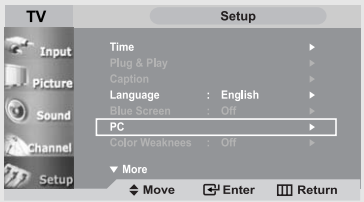
1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** ▲▼ buttons to select “Setup”, then press the **ENTER** button.

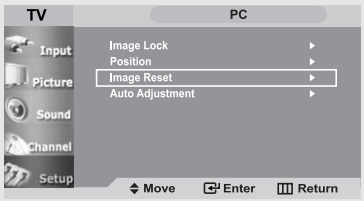
Press the **UP/DOWN** ▲▼ buttons to select “PC”, then press the **ENTER** button.



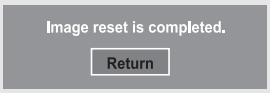


2

Press the **UP/DOWN** ▲▼ buttons to select “Image Reset”, then press the **ENTER** button.



Press the **EXIT** button to exit.



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Chapter Six

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call your nearest Samsung service center.

Identifying Problems

Problem	Possible Solution
Poor picture	■ Try another channel. ■ Adjust the antenna. ■ Check all wire connections.
Poor sound quality.	■ Try another channel. ■ Adjust the antenna.
No picture or sound.	■ Try another channel. ■ Press the SOURCE button. ■ Make sure the TV is plugged in. ■ Check the antenna connections.
No sound or sound is too low at maximum volume.	■ First, check the volume of units connected to your TV (digital broadcasting receiver, DTV, DVD, cable broadcasting receiver, VCR, etc.). ■ Then, adjust the TV volume accordingly.
Picture rolls vertically.	■ Check all wire connections.
The TV operates erratically.	■ Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	■ Make sure the wall outlet is working.
Remote control malfunctions	■ Replace the remote control batteries. ■ Clean the upper edge of the remote control (transmission window). ■ Check the battery terminals.
"Check Signal Cable PC" message.	■ Ensure that the signal cable is firmly connected to the PC sources.

The TFT LCD panel uses a panel consisting of sub pixels (LN32A32B - 2,949,120) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

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TROUBLESHOOTING

Problem	Possible Solution
"Not Supported Mode PC" message.	■ Check the maximum resolution and the frequency of the Video Adapter. ■ Compare these values with the data in the Display Modes Timing Chart.
The image is too light or too dark.	■ Adjust the Brightness and Contrast. ■ Adjust the Fine tuning.
Horizontal bars appear to flicker, jitter or shimmer on the image.	■ Adjust the Coarse tuning and then adjust the Fine tuning.
Vertical bars appear to flicker, jitter or shimmer on the image.	■ Adjust the Coarse tuning and then adjust the Fine tuning.
Screen is black and power indicator light blinks steadily.	■ On your computer check: Power , Signal Cable The TV is using its power management system. ■ Move the computer's mouse or press a key on the keyboard.
Image is not stable and may appear to vibrate.	■ If the setting is not correct, use your computer utility program to change the display settings. ■ NOTE: Your TV supports multiscan display functions within the following frequency domain: • Horizontal frequency: 30 kHz ~ 61 kHz • Vertical frequency: 56 Hz ~ 75 Hz • Maximum refresh rate: 1280 x 768 @ 60 Hz
Image is not centered on the screen.	■ Adjust the horizontal and vertical position. ■ The screen position must be adjusted on the output source (i.e. STB) with a digital signal.
If a still image is displayed for an extended period of time, residual images or blurring may appear.	■ When you need to leave the monitor unused for an extended period of time, adjust the settings so that the monitor automatically goes into energy saving mode or activates the screen saver to display moving images.

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Problem	Possible Solution
The Anynet does not function.	■ Check to see if the device is an Anynet device. The Anynet System supports only Anynet-enabled devices. ■ The Anynet System supports up to one device from the Receiver product group and two devices from the DVD product group. ■ Check to see if the Anynet devices are plugged in properly.
The remote control doesn't work.	■ Check to see if the angle and the distance between the remote control and the device are appropriate and if there is any obstacle in the path between the remote control and the device. ■ Replace the remote control batteries. ■ Check to see if you selected the correct device (TV, DVD, VCR, cable or STB) to control using the [Mode] button. ■ Check to see if the remote control mode matches the input mode. ■ See if you pressed the correct function button. ■ Be sure to note that there are buttons on the remote control that are not available depending on the device mode.
I would like to start the Anynet.	■ See if the Anynet devices are connected to the TV according to the connection diagram and make sure the proper Anynet Connection Setting has been selected. ■ Press the [Mode] button on the TV remote control to set the mode to TV. ■ Then, press the [Anynet] button to bring up the Anynet menu and choose a what AV device you want to see.
I would like to exit the Anynet.	■ Press [TV/Input] button on the TV remote control. ■ Turn the TV off.
I would like to bring up the TV menu while using the Anynet.	■ If you press the [Menu] button while you are using the Anynet Watch function, it can bring up the DVD menu, VCR menu or the Set-top box menu. ■ To view the TV menu, go to Anynet "Settings" and select "TV Menu." ■ Press the Menu button on the front of the TV.

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Problem	Possible Solution
I would like to turn the Anynet device off.	■ Press the [Power] button on the TV remote control while using the Anynet Watch function and the Anynet device that was automatically turned on by the Anynet System is turned off. (However, you cannot turn the device off in this manner if it was turned on manually.) ■ Press the Input button while using the Anynet Watch function and all Anynet devices except for the TV are turned off. ■ Select a different Watch menu item while using the Anynet Watch function and the Anynet device you have been watching is turned off.
Can't use Anynet.	■ To change the remote control to Anynet mode,be sure to press the "Mode"button on the TV remote control to change to TV mode first.
Can't use (name of device).	■ Check to see if the power code of the device is plugged in properly. ■ Check to see if the Anynet devices are connected properly according to the instructions.
Can't use in the current mode.	■ The key is not supported in the current mode.
Anynet operating…	■ You cannot use the keys on the remote control while the Anynet settings are being adjusted or during a Watch TV or Watch STB. ■ Try the keys again after the application of the new Anynet settings or the mode switch is complete.
You cannot turn the device that is currently recording off.	■ The device that is currently recording is not turned off when you press the power button. ■ To turn a device that is currently recording off, use the remote control of such device or the button on the front of the device.

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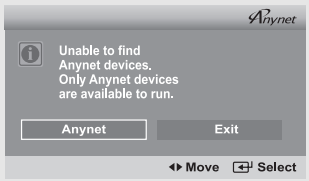
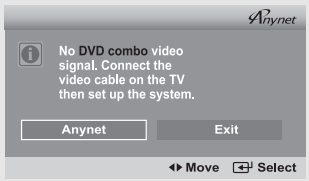
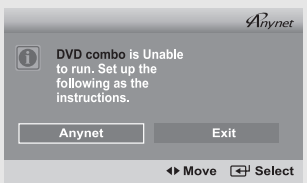
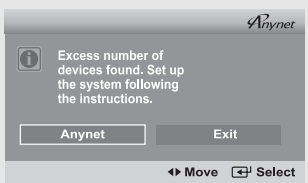
Problem	Possible Solution
	■ See if there are Anynet devices connected. ■ The Anynet System supports only Anynet devices. ■ Check to see if the Anynet devices connected are plugged in properly. ■ Check to see if the Anynet devices are connected properly according to the Anynet connection diagram. (Make sure that the Output port of the TV is connected to the Input port of the Anynet device and the Output port of the Anynet device is connected to the Input port of the other Anynet device.)
	■ Connect the video cable of the device to the TV according to the connection diagram. ■ Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup]. ■ Check to see if the video cable is damaged. Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup]. ■ If the video cables are connected properly, set the input source to the Anynet device (Combo) using the Input button on the remote control and see if the display works properly. If it does not work properly, see Troubleshooting for such device (Combo).
	■ Check to see if the device is plugged in properly. ■ Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup]. ■ Check to see if the cables are connected properly according to the instructions. ■ Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup]. ■ If the device is connected properly, turn the TV off and go to [Settings] in the Anynet menu and select [Basic Connection Setting] or [Customized Setup].
	■ Check to see if two or more of the same type of device are connected and if so, remove all such devices but one. ■ The Anynet System does not function when more than one of the same type of device is connected.
	■ Check the number of the Anynet devices connected and connect the devices properly according to the connection diagram. ■ Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup]. (The Anynet System supports up to one device from the Receiver product group and two devices from the DVD product group.)

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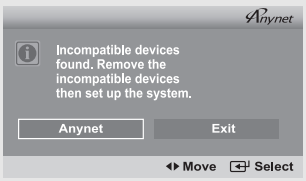
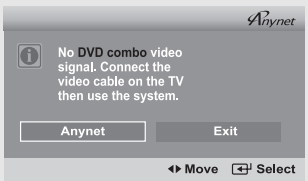
Problem	Possible Solution
	■ Make sure that the devices connected support the Anynet. ■ Remove devices from the new Anynet product groups that are not supported by the Anynet version currently running on your TV. ■ Then go to [Settings] in the Anynet menu and select [Typical Setup] or [Customized Setup].
	■ Connect the video cable of the device to the TV according to the connection diagram before use. ■ Check to see if the video cable is connected to the same place now as it was at the time you selected the Connection Setting. ■ To re-connect the video cable to a different location, re-select the Connection Setting and choose a device to watch. ■ If the TV is in VCR mode, see if the tape has any noise. ■ The device may not be able to detect the video signal if the noise level is high.
	■ Connect the video cables of the VCR properly according to the connection diagram. ■ Then go to [Setups] in the Anynet menu and select [Typical Setup] or [Customized Setup]. (After selecting the connection settings, make sure that the Anynet device is selected for VCR viewing in the pop-up window.) If the cables are connected properly, see if the video cable of the VCR is damaged.
	■ See if there are Anynet devices connected. ■ The Anynet System supports only the Anynet devices. ■ If you have Anynet devices to connect, connect the devices properly according to the connection diagram. ■ Then go to [Setups] in the Anynet menu and select [Typical Setup] or [Customized Setup].
	■ You cannot use the " Play DVD " or "Play VCR " functions while the device is recording. Stop the recording before you use the "Play" functions.

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Glossary	Content
The Anynet System	A system that allows controlling Samsung AV devices from the TV.
Watch TV Broadcast	When selected, this Anynet menu item automatically executes the steps involved in watching TV broadcasts on TV.
Play DVD	When selected, this Anynet menu item automatically executes the steps involved in watching DVD titles on TV.
Watch Satellite	When selected, this Anynet menu item automatically executes the steps involved in watching satellite programs on TV.
Switch to TV Remote Control Mode	Select this menu item to switch the mode of the remote control to TV mode.
Typical Setup	A menu item to configure the system setting before using the Anynet System. (In setting up the Anynet System, use the connectors provided with the purchase of the products or buy separate video connectors to connect the devices.)
Customized Setup	A menu item to configure the system setting before using the Anynet System. (Choose this menu item when you use optical connectors to connect the Anynet devices.)
Select Audio Input Port	Use this menu item to select the port on the TV or the Receiver to which you connected the audio input port of the device during the Anynet system configuration.
RS232C cable	Used to transmit signals to the TV and other peripheral devices.
OPTICAL	Optical digital output port. The simple connection helps protect the device from electric interference, reducing the loss of electricity. It also allows accurate sound reproduction.
COAXIAL	Coaxial digital output port. Allows high capacity data transmission with minimum data loss and the resulting strong noise reduction capability allows accurate sound reproduction.
Subwoofer	Complements the low-sound reproduction capability of the front speakers.

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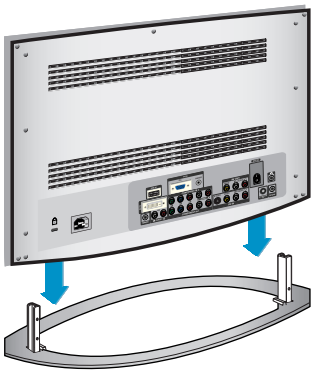
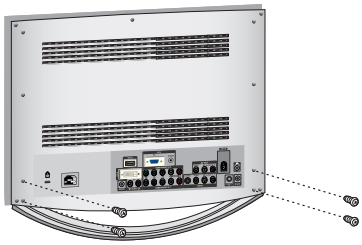
Installing the Stand



<1>



<2>

1

Lower the TV set in the direction of the arrow and fix the stand.

2

Use the four screws to tightly fix the stand.

Maintenance of Your LCD TV

WARNING: To avoid risk of electric shock, do not disassemble the TV cabinet (except for gaining access to the cable connectors as described on Chapter 2). Users cannot service the TV. User maintenance is restricted to cleaning as explained below:

Unplug the LCD TV from the power outlet before cleaning.

- To clean your flat panel display screen, use a soft, clean cloth lightly dampen with water or mild deter gent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the LCD TV cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your LCD TV or any other electrical apparatus.

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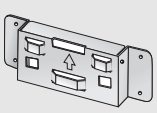
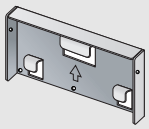
Installing the Wall Mount Kit

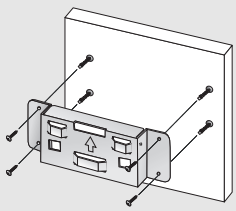
Note: This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.

Components (Sold separately)

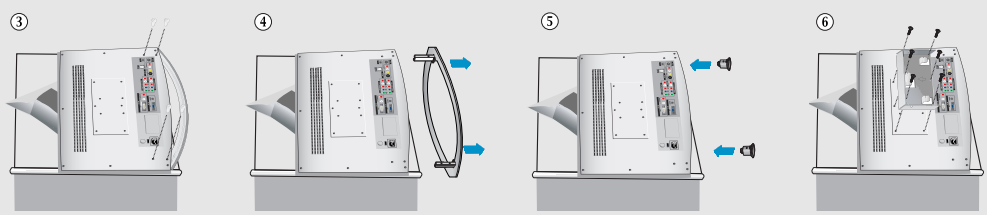
		M4 X L15	M4 X L20		
ⓐ Wall-Bracket	ⓑ Set-Bracket	ⓒ Screw: 8EA	ⓓ Wood Screw: 4EA	ⓔ Anchor: 4EA	ⓕ Installation Guide

How to assemble the Wall Mount Bracket

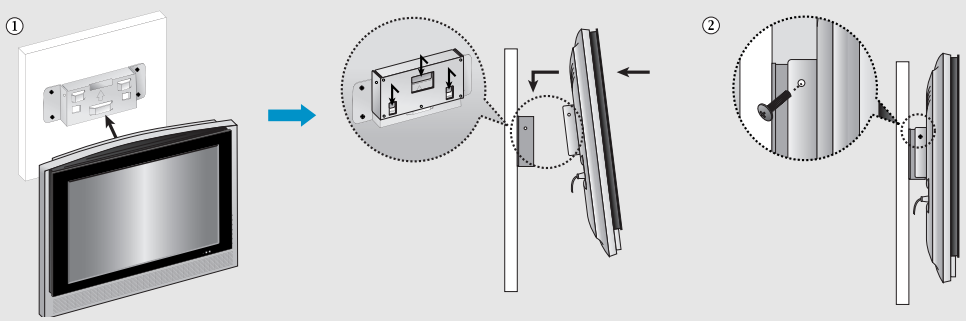
1 ① Mark the location of hole on the wall.
② Make over 35mm-depth-hole on the marked location using drill.
③ Fix anchors ⓔ on each hole on the wall.
④ Connect wall-bracket ⓐ to the wall with wood screws ⓓ after fitting anchors ⓔ into the wall-bracket ⓐ.
Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.



2 ① Turn the power off and unplug the power cord from the outlet.
② Place the TV faced down on a soft cloth or cushion on a table.
③ Remove the four screws from the back of the TV.
④ Separate the stand from the TV.
⑤ Cover the bottom hole with a cap
⑥ Attach the set-bracket ⓑ onto the rear side of the TV set and secure the screws ⓒ.



3 ① Insert three Hangers of the set-bracket ⓑ into the grooves of the wall-bracket ⓐ.
② Fix set-bracket ⓑ and wall-bracket ⓐ with screws ⓒ.



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Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service.
Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

- Do not handle liquids near or on the TV.
  Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth.
  Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

- If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

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Specifications

Model Name		LN32A32B
Panel	Size Display Size (HxV) Type Pixel Pitch Viewing Angle	32” Diagonal 27.06 x 16.24 inches (687.36 x 412.42 mm) a-si TFT active matrix 0.021(H) x 0.021(V) inches (0.537(H) x 0.537(V) mm) 170/170 (H/V)
*Frequency	Horizontal Vertical Display Color	30 ~ 61 kHz 56 ~ 75 Hz 16,777,216 colors
Display Resolution	Maximum Mode	1280 x 768 @ 60 Hz
Input Signal	Sync Signal Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm
Video	Color System Video System	NTSC, PAL-M CVBS, S-VHS
Component	Video In Audio In	1.0 Vp-p @ 75 ohm 500mVrms
Power Supply	Input	AC 100V ~ 240V (50/60Hz)
Power Consumption	Normal Power Saving	180 W < 5.0 W
Dimensions / Weight	Unit (WxDxH): body	33.93 x 4.95 x 23.01 inches (862.0 x 125.8 x 584.7 mm)
	With Stand	33.93 x 12.91 x 23.86 inches / 50.70 lbs (862.0 x 328.0 x 606.2 mm / 23.0 kg)
Environmental Considerations	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80%, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5% to 95%, non-condensing
Audio Characteristics	Audio Input 1 Audio Input 2 Headphone Out Frequency Response	RCA Jac (R, L), 0.5Vrms (-9dB) 3.5ø Stereo Jack, 0.5Vrms (-9dB) Max. 10mW Output (3.5ø Stereo Jack 32Ω) RF: 80Hz ~ 15kHz (at- 3dB) A/V: 80Hz ~ 20kHz (at - 3dB)

* Referring to Display Modes, page 82.

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Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
Macintosh	640 X 480	35.000	66.667	30.240	- / -
	832 X 624	49.726	74.551	49.500	+ / +
IBM	640 X 480	31.496	59.940	25.175	- / -
	720 X 400	31.469	70.087	28.322	- / -
VESA	640 X 480	37.861	72.809	31.500	- / -
	640 X 480	37.500	75.000	31.500	- / -
	800 X 600	37.879	60.317	40.000	+ / +
	800 X 600	48.077	72.188	50.000	+ / +
	800 X 600	46.875	75.000	49.500	+ / +
	1024 X 768	48.363	60.004	65.000	- / -
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
GTF	1280 X 768	47.700	60.000	80.136	- / +